


Certificate of Analysis
Information by Customer
Sample : MORINGA⁺ POWDER

Mfg. By : GOSIRI ORGANICS

Supplied By : NS

Received On : 29/01/2026

Report No. BG202601290096

Mfg lic. No. : NS

PO No. : NS

Sample Condition : Sealed Pack

Issued to : GOSIRI ORGANICS

Address : #18, KONANKERE, KADABA HOBLI GUBBI TALUK TUMKUR KARNATAKA 572219

Batch No	Mfg. Date	Expiry Date	Batch Size	Sample Quantity
NA	25/01/2026	6 MONTHS FROM THE DATE OF MFG	NS	100 g

Sample ID BG202601290096 **Date of start of analysis** : 03/02/2026 **Date of completion of analysis** : 23/02/2026

Reference to protocol NS

1 Description : Green coloured powder

Sr.No.	Parameters	Test Result	Requirements	Claim	LOD/LLOQ	Method
2	Vitamin A	Not detected	NS	-	-	In House
3	Vitamin B1	6.575 ppm	NS	-	-	APL/CHE/STP-001
4	Vitamin B2	6.586 ppm	NS	-	-	APL/CHE/STP-001
5	Vitamin B3	20.486 ppm	NS	-	-	APL/CHE/STP-001
6	Vitamin B9	0.521 ppm	NS	-	-	APL/CHE/STP-001
7	Vitamin C	105.60 mg/100g	NS	-	-	IS 5838
8	Vitamin E	Not detected	NS	-	-	In House
9	Energy	358.53 kcal/100g	NS	-	-	ARLBI/FCC/STP-001
10	Protein	28.97 %	NS	-	-	ARLBI/CHE/STP-025
11	Total Fat	4.13 %	NS	-	-	IS:12711:1989
12	Crude fibre..	1.55 %	NS	-	-	IS 12711:1989
13	Moisture	6.50 %	NS	-	-	IS 12711
14	Total plate count	<10cfu/g	NS	-	-	API (P-2)
15	Total Yeast & Mould count.	<10cfu/g	NS	-	-	API (P-2)
16	E.Coli	Absent/g	NS	-	-	API (P-1)
17	Staphylococcus aureus	Absent/g	NS	-	-	API (P-2)

By ICP-OES:

18	Calcium	23609.602 ppm	NS	-	-	ARLBI/CHE/STP-024
19	Copper	2.420 ppm	NS	-	-	ARLBI/CHE/STP-024
20	Zinc	34.476 ppm	NS	-	-	ARLBI/CHE/STP-024
21	Iron	1382.989 ppm	NS	-	-	ARLBI/CHE/STP-024
22	Magnesium	33488.096 ppm	NS	-	-	ARLBI/CHE/STP-024
23	Phosphorus	40501.828 ppm	NS	-	-	ARLBI/CHE/STP-024
24	Lead	0.840 ppm	NS	-	-	ARLBI/CHE/STP-024

26/02/2026
Arun Kumar K. P.
Authorized Signatory Biological

26/02/2026
Radhika N.T.
Authorized Signatory Chemical

Person-In-Charge
Person-In-Charge

**Certificate of Analysis**

Report No. : BG202601290096

25	Arsenic.	0.049 ppm	NS	-	-	ARLBL/CHE/STP-024
26	Cadmium.	Not detected	NS	-	-	ARLBL/CHE/STP-024
27	Mercury	1.432 ppm	NS	-	-	ARLBL/CHE/STP-024
28	Potassium.	29635.484 ppm	NS	-	-	ARLBL/CHE/STP-024

Report : In the opinion of the undersigned the sample referred to above conforms with respect to the above parameters only.

A
26/02/2026
Arun Kumar K.P
Authorized Signatory Biological

B
26/02/2026
Balita S.T
Authorized Signatory Chemical
Date of Issue : Monday, Feb 23, 2026

Person-In-Charge

End of Report



To verify Report Scan this Code.

Person-In-Charge***Terms & Conditions:**

- (1) Total liability of this laboratory is limited to the invoice amount.
- (2) Sample not drawn by the laboratory, unless specified. The results apply to the samples as received.
- (3) The results listed refer only to the tested sample and applicable parameter. Endorsement of products is neither inferred nor implied.
- (4) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of Law and should not be used in any advertising media without our special Permission on writing.

**MICROBIAL LIMIT TEST OF AYURVEDIC
PRODUCTS AS PER API (Part II) Volume-II**

Code	ARLB/FCM/STP-006
Issue No.	02
Effective Date	04/08/2025
Revision Date	04/08/2028

ARLB/FCM/STP-006/FR-01

APPENDIX I

DATA SHEET FOR MICROBIAL LIMIT TEST OF AYURVEDIC PRODUCTS AS PER API (PART-II)
Report No. 86202601290096Name of the Sample: Moringa + powder

TEST PARAMETER	DILUENT/ MEDIUM USED	MEDIA LOT NO.	QUANTITY OF SAMPLE	DILUTION OF SAMPLE	TEMPERATU RE	DURATION (HRS.)	DATE OF ANALYSIS	COMPLETIO N DATE	OBSERVATI ON
Pre-enrichment	BSCP / SCDM	BSCP- 201012026	10g	90ml	30°C - 35°C	24 hrs	30/01/2026	30/01/2026	NA
Pour-Plate Method (Bacteria)	SCDA	SCDA- 301012026	01ml	10 ⁻¹	30°C - 35°C	5 days	30/01/2026	04/02/2026	Nil, nil
Pour-Plate Method (Yeast & Mold)	SDCA	SDCA- 301012026	01ml	10 ⁻¹	20°C - 35°C	5 days	30/01/2026	04/02/2026	Nil, nil
Negative control	SCDA	SCDA-301012026	-	-	30°C - 35°C	5 days	30/01/2026	04/02/2026	No growth observed
Negative control	SDCA	SDCA-301012026	-	-	20°C - 35°C	5 days	30/01/2026	04/02/2026	No growth observed
Positive Control	SCDA	SCDA-301012026	-	-	30°C - 35°C	5 days	30/01/2026	04/02/2026	Growth observed
Positive Control	SDCA	SDCA-301012026	-	-	20°C - 35°C	5 days	30/01/2026	04/02/2026	Growth observed

Result: <10cfu/g, <10cfu/g

Conclusion: The sample shows the complies / does not complies of the Microbial Limit Test of Ayurvedic Products.

Analysed By: D. J. 04/02/2026Approved By: K. 04/02/2026

Filename: ARLBL_FCM_STP_006_Issue02

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Sign: A. 04/02/2026 Date: 30/01/2026

**MICROBIAL LIMIT TEST OF AYURVEDIC
PRODUCTS AS PER API (Part II) Volume-II**

Code	ARLB/FCM/STP-006
Issue No.	02
Effective Date	04/08/2025
Revision Date	04/08/2028

**APPENDIX II
DATA SHEET FOR DETECTION OF ESCHERICHIA COLI OF AYURVEDIC PRODUCTS AS PER API (PART-II)**

 Name of the Sample: Moslinga + Powder

 Report No. RG202601290096

TEST PARAMETER	DILUENT/ MEDIUM USED	MEDIA LOT NO.	QUANTIT Y OF SAMPLE	DILUTION OF SAMPLE	TEMPERATU RE	DURATION (HRS.)	DATE OF ANALYSIS	COMPLETI ON DATE	OBSERVATIO N
Initial suspension (Enrichment)	BSCP / SCDM	810m-005 2026-008	10 ml	90ml	30°C - 35°C	24 hrs	30/01/2026	31/01/2026	Turbidity observed
(Primary test)	NB	-	5 ml	50 ml	37°C	18- 24 hrs	-	-	-
(Secondary test)	MBP	F1MBP-3101a 2026-008	1 ml	5 ml	36°C-38°C	48 hrs	31/01/2026	02/02/2026	No growth
(Secondary test)	MBP	F1MBP-3101a 2026-008	0.1 ml	5 ml	43.5°C-44.5°C	24 hours	31/01/2026	01/02/2026	No growth
(Secondary test)	PEP	-	0.1 ml	5 ml	43.5°C-44.5°C	24 hours	-	-	-
Negative Control	MBP (Primary test)	F1MBP-3101 2026-008	-	-	43.5°C-44.5°C	48 24 hours	31/01/2026	02/02/2026	No growth
Negative Control	MBP (Secondary y test)	F1MBP-3101 2026-008	-	-	43.5°C-44.5°C	24 hours	31/01/2026	01/02/2026	No growth
Negative Control	PEP	-	-	-	43.5°C-44.5°C	24 hours	-	-	-
Positive Control	MBP (Primary test)	F1MBP-3101 2026-008	Loopful	-	43.5°C-44.5°C	24 hours	31/01/2026	02/02/2026	Growth observed
Positive Control	MBP (Secondary y test)	F1MBP-3101 2026-008	Loopful	-	43.5°C-44.5°C	24 hours	31/01/2026	01/02/2026	Growth observed
Positive Control	PEP	-	Loopful	-	43.5°C-44.5°C	24 hours	-	-	-
Alternate Test	MCA	F1MCA-005 02/02/2026	Loopful	-	36-38°C	24 - 48 hrs	02/02/2026	04/02/2026	No growth

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MICROBIAL LIMIT TEST OF AYURVEDIC PRODUCTS AS PER API (Part II) Volume-II

Code	ARL/BL/FCM/STP-006
Issue No.	02
Effective Date	04/08/2025
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	FCMCA - positive FCMCA - negative FCMCA - positive	-	-	36-38°C	24-48 hrs	02/01/2026	02/01/2026	02/01/2026
Negative Control	MCA	-	-	36-38°C	24-48 hrs	02/01/2026	02/01/2026	02/01/2026
Positive Control	MCA	Loopful	-	36-38°C	24-48 hrs	02/01/2026	02/01/2026	02/01/2026
(Confirmatory test)	EMB Agar	Loopful	-	36-38°C	24-48hrs	02/01/2026	02/01/2026	02/01/2026
Indole test	PEP Tubes	Loopful	-	37°C	24 hrs	02/01/2026	02/01/2026	02/01/2026
Negative Control	EMB Agar	-	-	36-38°C	24-48hrs	02/01/2026	02/01/2026	02/01/2026
Negative Control	PEP Tubes	-	-	37°C	24 hrs	02/01/2026	02/01/2026	02/01/2026
Positive Control	EMB Agar	Loopful	-	36-38°C	24-48hrs	02/01/2026	02/01/2026	02/01/2026
Positive Control	PEP Tubes	Loopful	-	37°C	24 hrs	02/01/2026	02/01/2026	02/01/2026

Note:- *Escherichia coli*

Primary Test: MBP - Acid / Gas production Observed / Not observed.

Secondary Test: MBP - Acid / Gas production Observed / Not observed. PEP - Red colour ring formation Observed / Not observed.

Alternate Test: MCA - Brick-red colonies surrounded by bile precipitate Observed / Not observed.

Confirmatory Test: **EMB** - Colonies with Blue black appearance and metallic sheen Observed / Not observed. **PEP** - Cherry Red colour ring formation Observed / Not observed.

Result: Absent for

Conclusion: The sample shows the complies / ~~does not complies~~ of the Detection of *Escherichia coli*.

Analysed By: *DX* 04/02/2026.

Approved By: K. O. L. O. L. O. L.

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Sign: A Date: 30/01/2026

**MICROBIAL LIMIT TEST OF AYURVEDIC
PRODUCTS AS PER API (Part II) Volume-II**

Code	ARLB/FCM/STP-006
Issue No	02
Effective Date	04/08/2025
Revision Date	04/08/2028

APPENDIX III
ARLB/FCM/STP-006/FR-03
DATA SHEET FOR DETECTION OF STAPHYLOCOCCUS AUREUS OF AYURVEDIC PRODUCTS AS PER API (PART-II)

Name of the Sample: Mozinga + PowderReport No. B6202601290096

TEST PARAMETER	DILUENT/ MEDIUM USED	MEDIA LOT NO.	QUANTITY OF SAMPLE	DILUTION OF SAMPLE	TEMPERATURE	DURATION (HRS.)	DATE OF ANALYSIS	COMPLETION DATE	OBSERVATION
Initial suspension	BSCP / SCDM	Fdmsd- sulohone 0005	10 ml streak	90 ml ant	30°C - 35°C	24 hrs	30/01/2026	31/01/2026	Feasibility observed.
(Primary test)	BPA	-	Loopful	-	35°C - 37°C	24-48 hrs	-	-	-
(Primary test)	VJA	-	Loopful	-	35°C - 37°C	24-48 hrs	NA	31/01/2026	Feasibility observed.
(Primary test)	MSA	Fdmsd- sulohone 0004	Loopful	-	35°C - 37°C	24-48 hrs	30/01/2026	02/02/2026	No growth observed.
Negative Control	BPA	-	-	-	35°C - 37°C	24-48 hrs	-	-	-
Negative Control	VJA	-	-	-	35°C - 37°C	24-48 hrs	-	NA	Feasibility observed.
Negative Control	MSA	Fdmsd sulohone 0004	-	-	35°C - 37°C	24-48 hrs	31/01/2026	02/02/2026	No growth observed.
Positive Control	BPA	-	Loopful	-	35°C - 37°C	24-48 hrs	-	NA	Feasibility observed.

Filename: ARLBL_FCM_STP_006_Issue02

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Dy 30/01/2026

Sign: NA Date: 30/01/2026

**MICROBIAL LIMIT TEST OF AYURVEDIC
PRODUCTS AS PER API (Part II) Volume-II**

Code	ARLBI/FCM/STP-006
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Positive Control	VJA	Loopful	35°C - 37°C	24-48 hrs	
Positive Control	MSA	Loopful	35°C - 37°C	24-48 hrs	31/01/2026
(Confirmatory test) Coagulase test	Rabbit plasma	Loopful	37°C	3-24hrs	02/01/2026
Negative Control	Rabbit plasma	-	37°C	3-24hrs	
Positive Control	Rabbit plasma	Loopful	37°C	3-24hrs	

Note - Staphylococcus aureus:

Primary Test: VJA - Black colonies with yellow zones Observed / Not observed. **MSA** - Yellow colonies with yellow zones Observed / Not observed.

BPA - Black, shiny colonies surrounded by clear 2-5mm zones Observed / Not observed.

Confirmatory Test: Coagulase Test - Coagulation Observed / Not observed.

Result: Absent

Conclusion: The sample shows the complies / does not complies of the Detection of Staphylococcus aureus.

Analysed By: TX 02/02/2026

Approved By:

K 04/02/2026

RAW DATA SHEET

3314

661471

Report No. BG 202501290096	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 03/02/2026	Analysis Completion Date: 03/02/2026

Test Parameters **Moisture**Test Method: **IS.12711.**Balance ID: **ARLB1601-AWB-023**Due Date of Calibration: **23/02/2026**Equipment/Instrument: **ARLB1601 #10-008**Due Date of Calibration: **26/02/2026**Equipment/Instrument: **NA**Due Date of Calibration: **NA**

Weight of the Sample:

Working mode Weighing
 Date 03.02.2026
 Time 10:41:17
 Balance S/N 773612
 Instrument ID: ARL/BLEQ/AWB-023

W_0 33.52624 g
 W 5.00694 g

Date 03.02.2026
 Time 10:42:30

Signature **SAB**
 03/02/2026

P
 03/02/2026

Working mode Weighing
 Date 03.02.2026
 Time 15:15:35
 Balance S/N 773612
 Instrument ID: ARL/BLEQ/AWB-023

W 38.20775 g

Date 03.02.2026
 Time 15:16:15

Signature **SAB**
 03/02/2026

P
 03/02/2026

Working mode Weighing
 Date 03.02.2026
 Time 16:00:01
 Balance S/N 773612
 Instrument ID: ARL/BLEQ/AWB-023

W 38.20772 g

Date 03.02.2026
 Time 16:00:41

Signature **SAB**
 03/02/2026

P
 03/02/2026

$$M(Y):- W_0 + W$$

$$= 33.52624 + 5.00694$$

$$(W_1) = 38.53318 \text{ g}$$

$$M(Y) = \frac{(38.53318 - 38.20772) \times 100}{5.00694}$$

$$= 6.50\%$$

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

weighed 5.00694 g of sample in a tared dish.
Then transferred the dish into hot oven for 1 hour
at 105°C, then cooled the dish in desiccator and
weighed. Then continue the process until
constant weight occurs.

NA

SN
03/02/2026

Result : 6.50 %

SN

03/02/2026

Performed by (Sign & Date)

SN
03/02/2026

Checked By (Sign & Date)

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RAW DATA SHEET

3314

661472

Report No: 202301290096	Booking date: 29/01/2026
Sample name: Maringa + Powder	
Analysis Started Date: 03/02/2026	Analysis Completion Date: 03/02/2026

Test Parameters **Protein**Test Method: **ARLBLEQ/CH51STP-025**Balance ID: **ARLBLEQ/AWB-023**Due Date of Calibration: **23/02/2026**Equipment/Instrument: **ARLBLEQ/PES-001**Due Date of Calibration: **16/07/2026**Equipment/Instrument: **NA**Due Date of Calibration: **NA**

Weight of the Sample:

Working mode Weighing
 Date 03.02.2026
 Time 11:39:27
 Balance S/N 773612
 Instrument ID: ARL/BLEQ/AWB-023

Volumetric details:-

Name:- **HCl**Strength:- **0.502N**Valid:- **21/02/2026**

Dilution:- Taken 20 ml of above solution and
 made up to 100 ml with DM water.

0.20042 g
 Date 03.02.2026
 Time 11:40:26

Signature **SAB**
 03/02/2026

Q
 03/02/2026

Protein:-
$$\frac{(S-B) \times N \text{ of HCl} \times 14.007 \times 6.25 \times 100}{\text{Sample wt in (mg)}}$$

 (%)

$$= \frac{(6.8 - 0.2) \times 0.1005 \times 14.007 \times 6.25 \times 100}{200.42}$$

$$= \underline{\underline{28.97 \%}}$$

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

Weighed 0.20043g of sample in a digestion tube. Then added sodium sulphate and copper sulphate mixture. Then 10ml of H_2SO_4 added. Placed the digestion tube and processed the digestion until the solution becomes clear bluish-green colour. Cooled the tubes and processed for distillation. Connected the flask into distillation and processed the distillation using water and 40% of NaOH. In receiver tube having conical flask, in conical flask containing 25ml of 4% Boric acid and mixed indicator. Carried out blank also. Then titrated the blank and sample using 0.1N HCl solution. Recorded the titre value and calculated.

Result : 28.971.

SNS
03/02/2026.

Performed by (Sign & Date)

R
03/02/2026
Checked By (Sign & Date)
Page 2 of 2

RAW DATA SHEET

3314

661473

Report No. BG 202301290096	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 03/02/2026	Analysis Completion Date: 04/02/2026

Test Parameters **Total fat**Test Method: **IS 12711**Balance ID: **ARLBLE01-AWB-023**Due Date of Calibration: **23/02/2026**Equipment/Instrument: **ARLBLE01 H0 - 006**Due Date of Calibration: **26/02/2026**Equipment/instrument: **NA**Due Date of Calibration: **NA**

Weight of the Sample:

Working mode Weighing
 Date 03.02.2026
 Time 12:06:24
 Balance S/N 773612
 Instrument ID: ARL/BLE0/AWB-023

W₁ 114.5626 g
 W₂ 2.00357 g

Date 03.02.2026
 Time 12:09:00

Signature **SAB** 03/02/2026 **P** 03/02/2026

Working mode Weighing
 Date 04.02.2026
 Time 17:15:01
 Balance S/N 773612
 Instrument ID: ARL/BLE0/AWB-023

W₂ 114.6454 g

Date 04.02.2026
 Time 17:15:35

Signature **SAB** 04/02/2026 **P** 04/02/2026

Working mode Weighing
 Date 04.02.2026
 Time 18:00:01
 Balance S/N 773612
 Instrument ID: ARL/BLE0/AWB-023

W₂ 114.6454 g

Date 04.02.2026
 Time 18:00:39

Signature **SAB** 04/02/2026 **P** 04/02/2026

$$TF = \frac{W_2 - W_1}{W} \times 100$$

$$= \frac{(114.6454 - 114.5626)}{2.00357} \times 100$$

$$= 4.13 \%$$

SAB
 04/02/2026

Performed by (Sign & Date)

P
 04/02/2026

Checked By (Sign & Date)

Calculation:

Weighed 2.00357 g of sample in a tared filtered paper.
Then transferred the filtered paper into a Soxhlet apparatus.
Then process the sample extraction upto 16 hrs.
using petroleum ether, then extraction complete
after transferred the round bottom flask into
the water bath, then cooled and weighed.
Then transferred the bottle into hot air oven
at 100°C for an hour. Then cooled in desiccator
and weighed, continue the process until constant
weight occurs.

Result : 4.13.1.

SN
04/02/2026.

Performed by (Sign & Date)

GR
04/02/2026

Checked By (Sign & Date)

RAW DATA SHEET

3314

661474

Report No. 3314	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 04/02/2026	Analysis Completion Date: 04/02/2026.

Test Parameters

Total ash

Test Method:

IS: 12711.

Balance ID:

ARLBLED/ AWB-023

Due Date of Calibration:

23/02/2026

Equipment/Instrument:

ARLBLED/ MF-005

Due Date of Calibration:

28/02/2026.

Equipment/instrument:

NA

Due Date of Calibration:

NA

Weight of the Sample:

Working mode Weighing
Date 04.02.2026
Time 11:01:30
Balance S/N 773612
Instrument ID: ARL/BLED/AWB-023

W₁ 58.95451 g
W₂ 5.00233 g

Date 04.02.2026
Time 11:03:01

Signature SAS 04/02/2026 Q 04/02/2026

Working mode Weighing
Date 04.02.2026
Time 14:00:17
Balance S/N 773612
Instrument ID: ARL/BLED/AWB-023

W₂ 59.40605 g

Date 04.02.2026
Time 14:00:52

Signature SAS 04/02/2026 Q 04/02/2026

Working mode Weighing
Date 04.02.2026
Time 14:51:02
Balance S/N 773612
Instrument ID: ARL/BLED/AWB-023

W₂ 59.40602 g

Date 04.02.2026
Time 14:51:41

Signature SAS 04/02/2026 Q 04/02/2026

$$\text{Total ash (\%)} = \frac{(W_2 - W_1)}{W} \times 100$$

$$= \frac{(59.40602 - 58.95451)}{5.00233} \times 100$$

$$= \underline{9.03} \%$$

Performed by (Sign & Date)

SAS
04/02/2026.

Checked By (Sign & Date)

Q
04/02/2026

Calculation:

weighed 5.00233 g of sample in a cooled and dried crucible, then charred the sample on a charring coil, then transferred the sample with crucible to muffle furnace at 550°C upto grey ash occurs. Then cooled in a desiccator and weighed. Then continue the process until the constant weight occurs.

Result : 9.03 %

SAB
04/02/2026

Performed by (Sign & Date)

G
04/02/2026
Checked By (Sign & Date)

RAW DATA SHEET

3314

661475

Report No.: BG 202001290096	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 04/02/2026	Analysis Completion Date: 04/02/2026

Test Parameters: Energy

Test Method: ARLBI/FCEL/STP-001

Balance ID: NA

Due Date of Calibration: NA

Equipment/Instrument: NA

Due Date of Calibration: NA

Equipment/Instrument: NA

Due Date of Calibration: NA

Weight of the Sample:

Carbohydrates:- 100 - (M + A + P + F)

$$= 100 - (6.50 + 9.03 + 28.97 + 4.13)$$

$$= 100 - 48.63$$

$$= 51.37 \text{ g/100g}$$

Energy:- $(C \times 4) + (F \times 9) + (P \times 4)$

$$= (51.37 \times 4) + (4.13 \times 9) + (28.97 \times 4)$$

$$= 205.48 + 37.17 + 115.88$$

$$= \underline{\underline{358.53 \text{ kcal/100g}}}$$

SA
04/02/2026
Performed by (Sign & Date)

TE SA
04/02/2026

SA
04/02/2026
Checked By (Sign & Date)

Calculation:

SA
04/02/2026

Result : 358.53 kcal/100g.

SA
04/02/2026.

Performed by (Sign & Date)

SA
04/02/2026

Checked By (Sign & Date)

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RAW DATA SHEET

Report No.: 80202501290096	Booking date: 3314 29/01/2026 661476
Sample name: Maringa + Powder	
Analysis Started Date: 09/02/2026	Analysis Completion Date: 09/02/2026

Test Parameters **Grude fibre**Test Method: **JS: 12711**Balance ID: **ARLBLEQAWB-021**Due Date of Calibration: **03/03/2026**Equipment/Instrument: **ARLBLEQ1 H0 - 006**Due Date of Calibration: **26/02/2026**Equipment/Instrument: **ARLBLEQ1 MF - 005**Due Date of Calibration: **28/02/2026**

Weight of the Sample:

Working mode	Weighing	Working mode	Weighing	Working mode	Weighing
Date	09.02.2026	Date	09.02.2026	Date	09.02.2026
Time	10:50:53	Time	13:47:54	Time	15:00:03
Balance type	AS X2 PLUS	Balance type	AS X2 PLUS	Balance type	AS X2 PLUS
Instrument ID: ARL/BLEQ/AWB-021		Instrument ID: ARL/BLEQ/AWB-021		Instrument ID: ARL/BLEQ/AWB-021	
2.50012 g		31.96665 g		31.99951 g	
Date	09.02.2026	Date	09.02.2026	Date	09.02.2026
Time	10:51:44	Time	13:48:34	Time	15:00:36
Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026

Working mode	Weighing	Working mode	Weighing	Working mode	Weighing
Date	09.02.2026	Date	09.02.2026	Date	09.02.2026
Time	15:51:01	Time	17:10:07	Time	17:57:21
Balance type	AS X2 PLUS	Balance type	AS X2 PLUS	Balance type	AS X2 PLUS
Instrument ID: ARL/BLEQ/AWB-021		Instrument ID: ARL/BLEQ/AWB-021		Instrument ID: ARL/BLEQ/AWB-021	
31.99949 g		31.96332 g		31.96329 g	
Date	09.02.2026	Date	09.02.2026	Date	09.02.2026
Time	15:51:40	Time	17:10:50	Time	17:57:59
Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026	Signature SA 09/02/2026

SA
09/02/2026
Performed by (Sign & Date)

SA
09/02/2026
Checked By (Sign & Date)

Calculation:

$$\begin{aligned}\text{Goud fibre (\%)} &= \frac{W_2 - W_3}{W} \times 100 \times \frac{100}{(100 - M)} \\ &= \left[\frac{31.99949 - 31.96329}{2.50019} \right] \times 100 \times \frac{100}{(100 - 6.50)} \\ &= \underline{\underline{1.55\%}}\end{aligned}$$

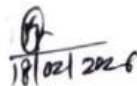
Result :

1.55%



09/02/2026.

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RAW DATA SHEET

3315

661772

Report No: 20202601290096	Booking date: 29/01/2026
Sample name: Maringa + Powder	
Analysis Started Date: 23/02/2026	Analysis Completion Date: 23/02/2026

Test Parameters **Vitamin C**Test Method: *** 28.53 42 IS: 5838.**Balance ID: **ARL/BL/EA/AWB-023**Due Date of Calibration: **23/03/2026**Equipment/Instrument: **NA**Due Date of Calibration: **NA**Equipment/instrument: **NA**Due Date of Calibration: **NA****Weight of the Sample:**

Working mode	Ascorbic acid	Weighing
Date		23.02.2026
Time		14:22:22
Balance S/N		773612
Instrument ID	ARL/BL/EA/AWB-023	
10.16 mg		
0.05 mg		
Date	10.11 mg	23.02.2026
Time		14:24:27
Signature	SN	23/02/2026

Working mode	Sample	Weighing
Date		23.02.2026
Time		16:37:24
Balance S/N		773612
Instrument ID	ARL/BL/EA/AWB-023	
5.00230 g		
Date		23.02.2026
Time		16:38:13
Signature	SN	23/02/2026

Reagent :- 10% of TCA solution :-Standard procedure :- Taken 10.11mg Ascorbic acid in a 10ml of v.f and make up with TCA solution.Indophenol soln :- 50mg of indophenol and 50ml water and 42mg sodium boroborate chemical in a conical flask then dilute to 200ml water.Standardization :- Taken 2ml of standard solution and added 5ml of tca and then titrated against Indophenol solution.

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23/02/2026
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23/02/2026
Checked By (Sign & Date)

Calculation:

Sample preparation :- Taken 5.00230g of sample into a 100ml v.f with TCA reagent, shaken well and makeup to 100ml filter immediately through filter paper. Then take 10ml of filtrate and titrated against indophenol solution.

$$\text{Calculation :- } \frac{\text{Standard wt (mg)}}{\text{Volume makeup}} \times \frac{\text{Volume taken}}{\text{T.V}} = \text{factor}$$

$$\text{factor} = \frac{10.11}{10} \times \frac{2}{15.4} = \frac{0.374}{1} \quad 0.132$$

$$\text{Vitamin C} = \frac{\text{TV} \times \text{B} (\text{factor}) \times 1000}{\text{Sample volume}}$$

(mg/100g)

$$= \text{Blank}$$

$$= \frac{8.0 \times 0.132 \times 1000}{10}$$

$$= 105.60 \text{ mg/100g}$$

Result : 105.60 mg/100g.

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23/02/2026

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23/02/2026

23/02/2026

Checked By (Sign & Date)

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RAW DATA SHEET

3315

661773

Report No: 202601290096	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 19/02/2026	Analysis Completion Date: 23/02/2026

Test Parameters **Vitamin - A**Test Method: **In House**Balance ID: **ARL/BLAQ/AWB-021**Due Date of Calibration: **03/03/2026**Equipment/Instrument: **ARL/BLAQ/HPLC-003**Due Date of Calibration: **05/06/2026**Equipment/instrument: **NA**Due Date of Calibration: **NA****Weight of the Sample:**

Working mode **Progallo1** Weighing
Date **19.02.2026**
Time **12:03:12**
Balance type **AS X2 PLUS**
Instrument ID: **ARL/BLAQ/AWB-021**

1.00025 g

Date **19.02.2026**
Time **12:03:56**

Signature **SA**
19/02/2026

19/02/2026

Reagent Preparation:-

1) 1% Progallo1 (Antioxidant solution) - weighed **1.00025g** of progallo1 and dissolved in 100ml ethanol

Working mode **KOH** Weighing
Date **19.02.2026**
Time **11:36:27**
Balance type **AS X2 PLUS**
Instrument ID: **ARL/BLAQ/AWB-021**

67.30025 g

Date **19.02.2026**
Time **11:37:58**

Signature **SA**
19/02/2026

19/02/2026

2) 10.5 M KOH (saponification solution) - weighed **67.30025g** of KOH and dissolved in 100ml DM water and cooled to room temperature.

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

Working mode vit-A std Weighing
Date 19.02.2026
Time 12:40:40
Balance type AS X2 PLUS
Instrument ID: ARL/BLER/AWB-021

10.27 mg
Date 19.02.2026
Time 12:45:01

Signature

19/02/2026

19/02/2026

standard preparation - weighed 10.27mg of vitamin-A standard and dissolved in methanol (7ml) in 10ml volumetric flask. sonicated for 10 minutes and mixed thoroughly. Made the volume upto the mark with methanol.

standard details -

Name - Vitamin A

Ref. No. - ARLBL/CRM/2025/0437

Assay - 98.51%

Expiry Date - 18/04/2027

Chromatographic Conditions -

Column - C18 (250mm x 4.6mm)

Detection wavelength - 326 nm

Injection volume - 20 µl

Flow rate - 1 ml/min

Mobile Phase - Methanol : Milli Q water (98:2)

Mobile Phase preparation - mixed 980ml of methanol and 20ml of Milli Q water in a bottle and sonicated for 10 minutes.

Result :

19/02/2026

Performed by (Sign & Date)

19/02/2026

Checked By (Sign & Date)

RAW DATA SHEET

3315

661774

Report No: BU 2 0 2 6 0 1 2 9 0 0 9 6	Booking date: 29/01/2026
Sample name: Maringa + Powder	
Analysis Started Date: 19/02/2026	Analysis Completion Date: 23/02/2026

Test Parameters **Vitamin - A**Test Method: **In House**Balance ID: **ARL/BL/EA/AWB-021**Due Date of Calibration: **03/03/2026**Equipment/Instrument: **ARL/BL/EA/HPLC-003**Due Date of Calibration: **05/06/2026**Equipment/instrument: **NA**Due Date of Calibration: **NA**

Weight of the Sample:

Working mode	5pt.	Weighing
Date	19.02.2026	
Time	12:28:29	
Balance type	AS X2 PLUS	
Instrument ID: ARL/BL/EA/AWB-021		
2.00342 g		
0.00109 g		
Date	2.00233g	19.02.2026
Time		12:30:01
Sign [Signature]		
19/02/2026		

Sample preparation - weighed 2.00233g sample into flat bottom flask (Amber colour) of 150ml capacity and added 5ml saponification solution (10.5M KOH) into it. Added 20ml antioxidant solution and refluxed for 45 mins at 70°C in water bath. Removed sample and cooled to room temperature and transferred to 250ml separating funnel. Added 30ml petroleum ether and shook well for 5 mins and separated upper layer. Repeated the extraction with 30ml petroleum ether for 3 more times and then washed it with distilled water upto alkali free. Evaporated the aliquot upto dryness under nitrogen gas. Dissolved the residue in 1ml Methanol and filtered with the 0.45um syringe filter. Injected the 20ul of the filtered solution on HPLC system.

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

Standard Area -

1) 1266526

2) 1264402

3) 1263378

4) 1266486

5) 1268597

Bkt - 1284982

Avg. - 1265878

Avg - 1269053.50

SD - 2037.84

SD - 7989.53

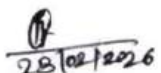
%RSD - 0.16%

%RSD - 0.63%

Result: Vitamin A - Not detected



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RAW DATA SHEET

3315

661775

Report No.: BU 2 0 2 6 0 1 2 9 0 0 9 6	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 20/02/2026	Analysis Completion Date: 23/02/2026

Test Parameters Vitamin - E

Test Method: In House

Balance ID: ARL/BL/EA/AWB-021

Due Date of Calibration: 09/09/2026

Equipment/Instrument: ARL/BL/EA/HPLC-003

Due Date of Calibration: 05/06/2026

Equipment/instrument: NA

Due Date of Calibration: NA

Weight of the Sample:

Working mode **KOH** Weighing
Date 20.02.2026
Time 14:12:20
Balance type AS X2 PLUS
Instrument ID: ARL/BL/EA/AWB-021

50.0031 g

Date 20.02.2026
Time 14:13:31

Signature **SNO** 20/02/2026 **Q** 20/02/2026

Working mode **Vit-E Std** Weighing
Date 20.02.2026
Time 13:59:51
Balance type AS X2 PLUS
Instrument ID: ARL/BL/EA/AWB-021

20.14 mg

Date 20.02.2026
Time 14:02:37

Signature **SNO** 20/02/2026 **Q** 20/02/2026

Performed by (Sign & Date)

Reagent preparation-

1) 50% KOH - weighed 50.0031g of KOH and dissolved in 50ml distilled water. Cooled to room temperature.

2) 95% Ethanol - Taken 95ml Ethanol in 100ml volumetric flask and diluted to mark with distilled water.

Standard preparation (stock) - weighed 20.14mg of standard vitamin E and added 30ml of Methanol into it in 100ml volumetric flask. Shaken to dissolve and made the volume upto the mark with Methanol. (200 µg/ml).

Working standard solution (20 µg/ml) - Pipetted out 1ml stock standard solution into 10ml volumetric flask and diluted to mark with Methanol.

Checked By (Sign & Date)

Calculation:

Standard Details -

Name - Vitamin E Acetate

Ref. No. - ARLBL/CRM/2024/0258

Assay - 97.1%

Expiry Date - 27/07/2027

Chromatographic conditions -

Column - Shodex C18 (250 mm x 4.6 mm)

Wavelength - 280 nm

Injection volume - 20 μ l

Flow rate - 1 ml/min

Mobile phase - Methanol (100%)

Result :

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20/02/2026

Performed by (Sign & Date)

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20/02/2026

Checked By (Sign & Date)

RAW DATA SHEET

3315

661776

Report No: BU 2 0 2 6 0 1 2 9 0 0 9 6	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date: 20/02/2026	Analysis Completion Date: 23/02/2026

Test Parameters Vitamin - E

Test Method: In House

Balance ID: ARL/BL/eq/AWB-021

Due Date of Calibration: 03/03/2026

Equipment/Instrument: ARL/BL/eq/HPLC-003

Due Date of Calibration: 05/06/2026

Equipment/instrument: NA

Due Date of Calibration: NA

Weight of the Sample:

Working mode	Spl.	Weighing
Date	20.02.2026	
Time	14:59:16	
Balance type	AS X2 PLUS	
Instrument ID:	ARL/BL/eq/AWB-021	
3.00204 g		
0.00012 g		
Date	3.00192 g	20.02.2026
Time		15:03:00
Signature: <i>SN</i> 20/02/2026		
Signature: <i>BR</i> 20/02/2026		

Working mode	Pyrogallol	Weighing
Date	20.02.2026	
Time	15:11:57	
Balance type	AS X2 PLUS	
Instrument ID:	ARL/BL/eq/AWB-021	
50.09 mg		
Date	20.02.2026	
Time	15:13:01	
Signature: <i>SN</i> 20/02/2026		
Signature: <i>BR</i> 20/02/2026		

sample preparation - weighed 3.00192g of sample in 500ml flat bottomed flask. Added 50.09mg pyrogallol acid into it. Added 100ml 95% Ethanol. Swirled the flask and added 10ml 50% KOH solution and immediately placed the flask on boiling water bath under reflux condenser. Refluxed for 45 minutes and swirled the flask every 10 minutes. Removed the flasks from water bath and quickly cooled to room temperature using ice water bath. To flask, added 90ml water, 1ml 0.1M NaOH and heated on mechanical shaking water bath at 60°C for 30 minutes.

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Performed by (Sign & Date)

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20/02/2026
Checked By (Sign & Date)

Calculation:

Extraction - Transferred the solution to 1000ml glass cylinder. Rinsed the flask one time with 50ml ethanol, 100ml water and 100ml petroleum ether and transferred each extraction to glass cylinder containing saponified sample extracts. shaken well and allowed to stand till phases separates. collected organic phase. Again re-extracted the aqueous phase three times with 100ml petroleum ether and added the extract to separating funnel. collected the organic phase and washed it with water 4 times to get free from alkalinity. Discarded the aqueous phase and transferred the organic phase content to the round bottomed flask using filter containing sodium sulphate in glass funnel. Added BHT granules in extracted solvent. Evaporated the content at 40°C and dissolved in 5ml Methanol. Filtered through 0.45µm filter paper syringe in HPLC vials and injected to HPLC.

Result :

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20/02/2026

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RAW DATA SHEET

3315

661777

Report No.: BG 2 0 2 6 0 1 2 9 0 0 9 6	Booking date: 29/01/2026
Sample name: Mahinga + Powder	
Analysis Started Date: 20/02/2026	Analysis Completion Date: 23/02/2026

Test Parameters **Vitamin-E**Test Method: **In house**Balance ID: **ARL/BLER/AWB-021**

Due Date of Calibration: 03/03/2026

Equipment/Instrument: **ARL/BLER/HPLC-003**

Due Date of Calibration: 05/06/2026

Equipment/instrument: **NA**Due Date of Calibration: **NA****Weight of the Sample:**standard Area -

1) 217013

2) 214815

3) 218545

4) 214160

5) 217267

Bkt - 216745

Avg. - 216360

Avg. - 216424.17

SD - 1820.05

SD - 1635.47

%RSD - 0.84%

%RSD - 0.76%

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23/02/2026
Checked By (Sign & Date)

Calculation:

NA
GB
23/02/2026

Result: Vitamin E - Not detected

AS R
23/02/2026

Performed by (Sign & Date)

GB
23/02/2026

Checked By (Sign & Date)

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RAW DATA SHEET

3315

661778

Report No. 202601290096	Booking date: 29/01/2026
Sample name: Maringa + Powder	
Analysis Started Date:	Analysis Completion Date:

Test Parameters

Test Method:

Balance ID:

Due Date of Calibration:

Equipment/Instrument:

Due Date of Calibration:

Equipment/instrument:

Due Date of Calibration:

Weight of the Sample:

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

20


25/02/2026

Result :

Performed by (Sign & Date)

Checked By (Sign & Date)

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RAW DATA SHEET**3315****661779**

Report No: BG 2 0 2 6 0 1 2 9 0 0 9 6	Booking date: 29/01/2026
Sample name: Moringa + Powder	
Analysis Started Date:	Analysis Completion Date:

Test Parameters

Test Method:

Balance ID:

Due Date of Calibration:

Equipment/Instrument:

Due Date of Calibration:

Equipment/instrument:

Due Date of Calibration:

Weight of the Sample:

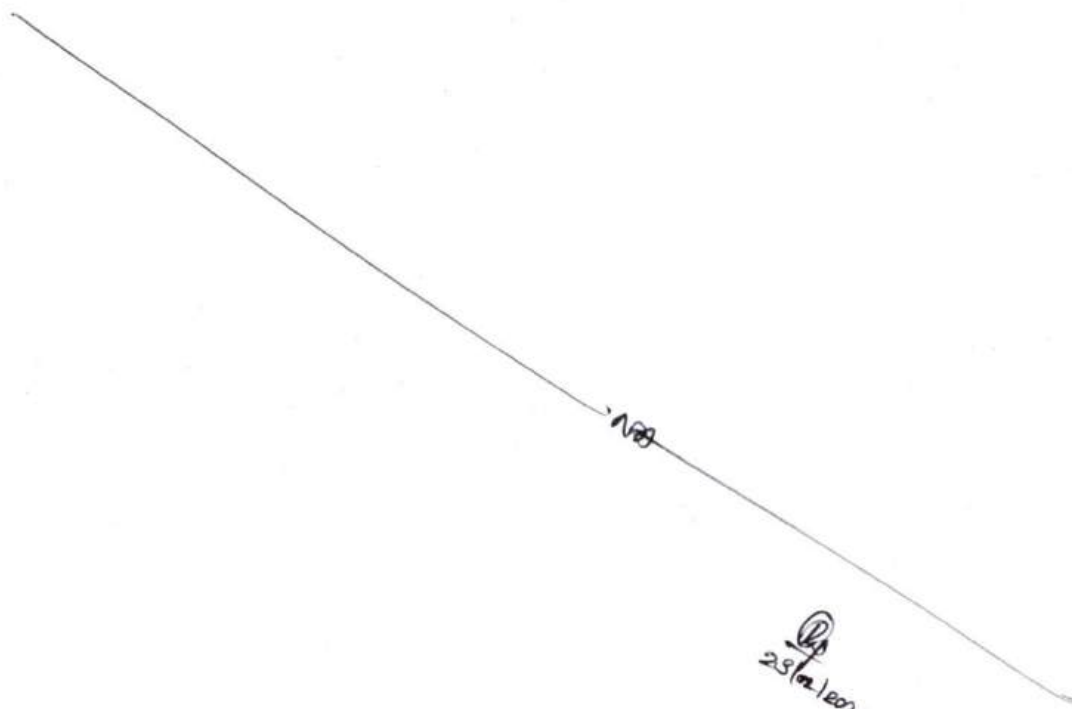
23/12/2026

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

42.130 10.2
2.11 x



Result :

Performed by (Sign & Date)

Checked By (Sign & Date)

RAW DATA SHEET

3315

661780

Part No.:

202601290096

Booking date:

29/01/2026

Sample name:

Moringa + Powder

Analysis Started Date:

Analysis Completion Date:

Test Parameters

Test Method:

Balance ID:

Due Date of Calibration:

Equipment/Instrument:

Due Date of Calibration:

Equipment/instrument:

Due Date of Calibration:

Weight of the Sample:

20

25/12/2025

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Calculation:

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23/01/2026

Result :

Performed by (Sign & Date)

Checked By (Sign & Date)

Sequence Print

Page 1 of 3

Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\SEQUENCE\Moringa + Powder_Vitamin
A_19-02-2026.seq
Printed: 19-02-2026 16:25:46 (GMT +05:30)
Creation Date: 19-02-2026 15:57:49 (GMT +05:30)
Last Change Date: 19-02-2026 16:03:59 (GMT +05:30)
Method Path: E:\HPLC-003\Method
Data Path:
Autosampler Path: E:\HPLC-003\Sample Prep

=====
Run: 1 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Blank
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 001.dat
Vial: 1 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Blank

Run: 2 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_01
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 002.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin A

Run: 3 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_02
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 003.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin A

Run: 4 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_03
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 004.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin A

Run: 5 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_04
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 005.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

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Sequence Print

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Concentration Overrides:
Description: Vitamin A

Run: 6 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_05
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 006.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin A

Run: 7 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Sample_01(BG202601290096)
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 007.dat
Vial: 3 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: NA

Run: 8 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Sample_02(BG202601290096)
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 008.dat
Vial: 3 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: NA

Run: 9 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_Bkt_01
Method: E:\HPLC-3\Method\Determination of Vitamin A in Food Samples.met
File: 009.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin A

Run: 10 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Wash
Method: E:\HPLC-3\Method\Wash method-Pump-C.met
File: 010.dat
Vial: 100 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Wash

Run: 11 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1

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Sequence Print

Mult Fact: $(1*1*1*1*1/1/1/1/1) = 1$
Rep: 1
Sample ID: Wash
Method: E:\HPLC-3\Method\Wash method- Pump D.met
File: 011.dat
Vial: 100 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Wash

Run: 12 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: $(1*1*1*1*1/1/1/1/1) = 1$
Rep: 1
Sample ID: Shut Down
Method: E:\HPLC-3\Method\Shut down.met
File: 012.dat
Vial: 100 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Shut Down

=====

Audit Trail
=====

Audit Trail: Enabled
Prompt Type: Prompt for reason when saving Sequence

Legend:

Run Type:

UNK = Unknown
CAL = Calibration
CAB = Begin Calibration
CAE = End Calibration
USP = Unspiked
SPK = Spiked
SP1 = Spike 1 of 2
SP2 = Spike 2 of 2
DP = Duplicate
CKS = QC Standard
SHD = Shutdown
LPB = Begin Loop
LPE = End Loop
SSB = Sys Suit Begin
SSE = Sys Suit End
SSS = Sys Suit Std.
SMB = Summary Begin
SMR = Summary Run
SME = Summary End
CCA = Clear All Calibration
CCL = Clear Calibration at Level
CPT = Print Calibration Report
ARP = Average Replicates
CRP = Clear Replicates
VSM = Vial Summary
PAR = Print Additional Reports
SCK = System Check
STA = Startup
BLC = Baseline Check
BLF = Baseline File

19/02/2026

19/02/2026

Method Name: E:\HPLC-3 Method Determination of Vitamin A in Food Samples.met
User Name: Prajwal N K (prajwal.nk)
Print Time: 19-02-2026 16:27:19 (GMT +05:30)
Created: 12-12-2025 15:08:47 (GMT +05:30)
Modified: 26-12-2025 20:36:35 (GMT +05:30)

---< Instrument Setup >-----

---< General Method Parameters >-----

Options

=====

Analyze After Acquisition: Yes
Enable compression for data file: No

Calibration

=====

Automatically Average Replicates: Yes
Number of replicates in rolling average: 0
Response Factor Definition: Amount/Area

Method Description

=====

Custom Parameters

=====

None

User Programs

=====

Before Run Program: Disabled
Before Analysis Program: Disabled
After Analysis Program: Enabled
Program File:
Additional Parameters:
After Export Program: Disabled
Baseline File: Disabled

Column Comp. (G1316A)

=====

Left Temperature Control

Temperature Control Mode:
Temperature:

Temperature Set
25.00 °C

Enable Analysis Left Temperature

Enable Analysis Left Temperature On:

Yes

Enable Analysis Left Temperature Value:

0.8 °C

Right Temperature Control

Right temperature Control Mode:

Combined


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Method Name: E:\HPLC-3\Method Determination of Vitamin A in Food Samples.met
User Name: Prajwal N K (prajwal.nk)
Print Time: 19-02-2026 16:27:19 (GMT +05:30)
Created: 12-12-2025 15:08:47 (GMT +05:30)
Modified: 26-12-2025 20:36:35 (GMT +05:30)

Enable Analysis Right Temperature
Enable Analysis Right Temperature On: Yes
Enable Analysis Right Temperature Value: 0.8 °C

Stop Time
Stoptime Mode: As pump/injector

Post Time
Posttime Mode: Off

Timetable

Trace: Column Comp.: Left Temperature
Display : No
Unit : °C

Trace: Column Comp.: Right Temperature
Display : No
Unit : °C

Quat. Pump (G1311C)
=====

Flow: 1.000 mL/min
Low Pressure Limit: 0.00 bar
High Pressure Limit: 400.00 bar
Maximum Flow Gradient: 100.000 mL/min²
Primary Channel: Automatic

Stroke
Automatic Stroke Calculation: Yes

Compress
Compressibility Mode: Compressibility Value Set
Compressibility: 100 10e-6/bar

Stop Time
Stoptime Mode: Time set
Stoptime: 35.00 min

Post Time
Posttime Mode: Off

Solvent Composition

Channel	Name 1	Used	Percent %
A		Yes	100.0
B		No	
C		No	
D		No	

Py
19/02/2026

Py
19/02/2026

Method Name: E: HPLC-3\Method Determination of Vitamin A in Food Samples.met
User Name: Prajwal N K (prajwal.nk)
Print Time: 19-02-2026 16:27:19 (GMT +05:30)
Created: 12-12-2025 15:08:47 (GMT +05:30)
Modified: 26-12-2025 20:36:35 (GMT +05:30)

Trace: Quat. Pump: Pressure
Display : No
Unit : bar

Trace: Quat. Pump: Flow
Display : No
Unit : mL/min

Trace: Quat. Pump: Solvent Ratio A
Display : No
Unit : %

Trace: Quat. Pump: Solvent Ratio B
Display : No
Unit : %

Trace: Quat. Pump: Solvent Ratio C
Display : No
Unit : %

Trace: Quat. Pump: Solvent Ratio D
Display : No
Unit : %

Trace: Quat. Pump: Direction of Piston A
Display : No
Unit : <Unknown>

Trace: DAD: Board Temperature
Display : No
Unit : °C

Trace: DAD: Optical Unit Temperature
Display : No
Unit : °C

Trace: DAD: UV Lamp Anode Voltage
Display : No
Unit : V

Sampler (G1329A)
=====

Auxiliary	
Draw Speed:	200 μ L/min
Eject Speed:	200 μ L/min
Draw Position Offset:	0.0 mm

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Method Name: E: HPLC-3 Method Determination of Vitamin A in Food Samples.met
User Name: Prajwal N K (prajwal.nk)
Print Time: 19-02-2026 16:27:19 (GMT +05:30)
Created: 12-12-2025 15:08:47 (GMT +05:30)
Modified: 26-12-2025 20:36:35 (GMT +05:30)

Injection

Injection Mode: Injection with needle wash
Injection Volume: 20.00 μ L

Needle Wash

Needle Wash Location: Wash Vial
Wash Location: Vial 100

High throughput

Overlapped Injection

Enable Overlapped Injection: No

Stop Time

Stoptime Mode: As pump/No limit

Post Time

Posttime Mode: Off

Timetable

Trigger Info

=====

Trigger Type: External Trigger
Injection Source: Als

---< >-----

Group Table

=====

None

DAD (G1315D)

=====

Peakwidth: > 0.1 min (2 s response time) (2.5 Hz)

Slit: 4 nm

UV Lamp Required: Yes

Vis Lamp Required: No

Analog Output 1

Analog 1 Zero Offset: 5 %

Analog 1 Attenuation: 1000 mAU

Analog Output 2

Analog 2 Zero Offset: 5 %

Analog 2 Attenuation: 1000 mAU

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Method Name: E:HPLC-3 Method Determination of Vitamin A in Food Samples.met
User Name: Prajwal N K (prajwal.nk)
Print Time: 19-02-2026 16:27:19 (GMT +05:30)
Created: 12-12-2025 15:08:47 (GMT +05:30)
Modified: 26-12-2025 20:36:35 (GMT +05:30)

Signals

Signal table

Use Sig.	Signal	Wavelength nm	Bandwidth nm	Use Ref.
Yes	Signal A	326	4	No
No	Signal B			
No	Signal C			
No	Signal D			
No	Signal E			
No	Signal F			
No	Signal G			
No	Signal H			

Prepare Mode

Margin for negative Absorbance: 100 mAU

Autobalance

Autobalance Prerun: Yes

Autobalance Postrun: No

Spectrum

Spectrum Store: None

Stoptime

Stoptime Mode: As pump/injector

Posttime

Posttime Mode: Off

Timetable

---< DAD: Signal A, 326 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal B, 254 nm/Bw:4 nm >---

No items selected for this section

---< Spectrum Max Plot >---

Prajwal N K
19/02/2026

Prajwal N K
19/02/2026

Method Name: E: HPLC-3 Method Determination of Vitamin A in Food Samples.met
User Name: Prajwal N K (prajwal.nk)
Print Time: 19-02-2026 16:27:19 (GMT +05:30)
Created: 12-12-2025 15:08:47 (GMT +05:30)
Modified: 26-12-2025 20:36:35 (GMT +05:30)

No items selected for this section

---< DAD: Signal C, 210 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal D, 230 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal E, 280 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal F, 260 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal G, 270 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal H, 290 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Spectrum >---

No items selected for this section


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Acquired By: Prajwal N K (prajwal.nk)

Processed By: Prajwal N K (prajwal.nk)

Sample ID: Blank

Data Description: Blank

Injection Volume (uL): 20

Vial Number: 1

Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\001.dat

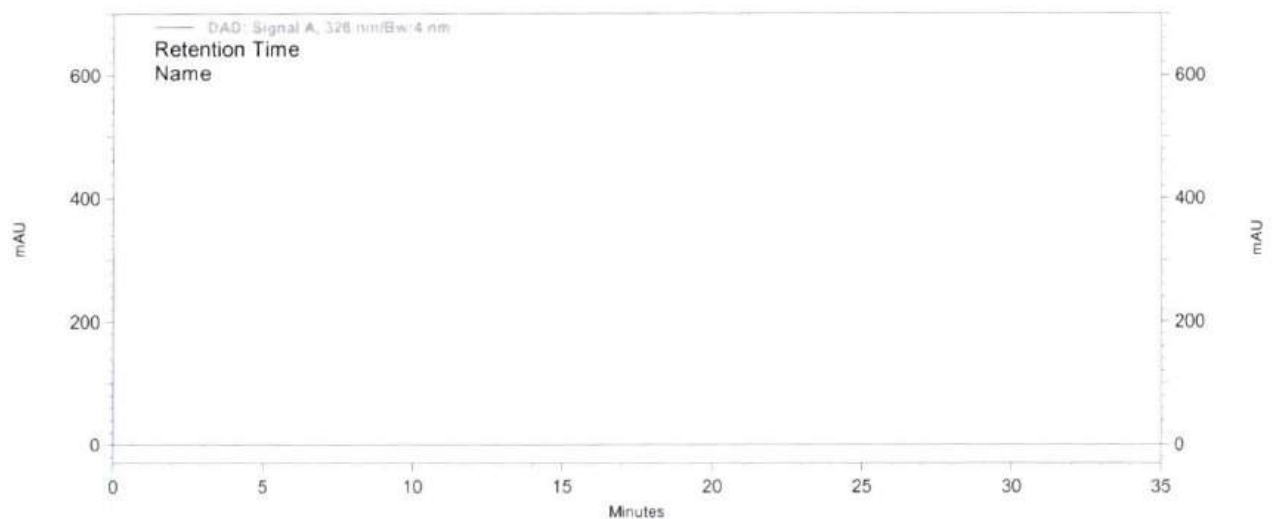
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Determination of Vitamin A in Food Samples.met

Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Moringa + Powder_Vitamin A_19-02-2026.rst

Acquired: 19-02-2026 16:32:09 (GMT +05:30)

Processed: 23-02-2026 14:43:30 (GMT +05:30)

Print Time: 23-02-2026 14:44:57 (GMT +05:30)



DAD: Signal A,

326 nm/Bw:4 nm

Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:


23/02/2026

Checked By:


23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)

Processed By: Prajwal N K (prajwal.nk)

Sample ID: Standard_01

Data Description: Vitamin A

Injection Volume (uL): 20

Vial Number: 2

Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rsl\002.dat

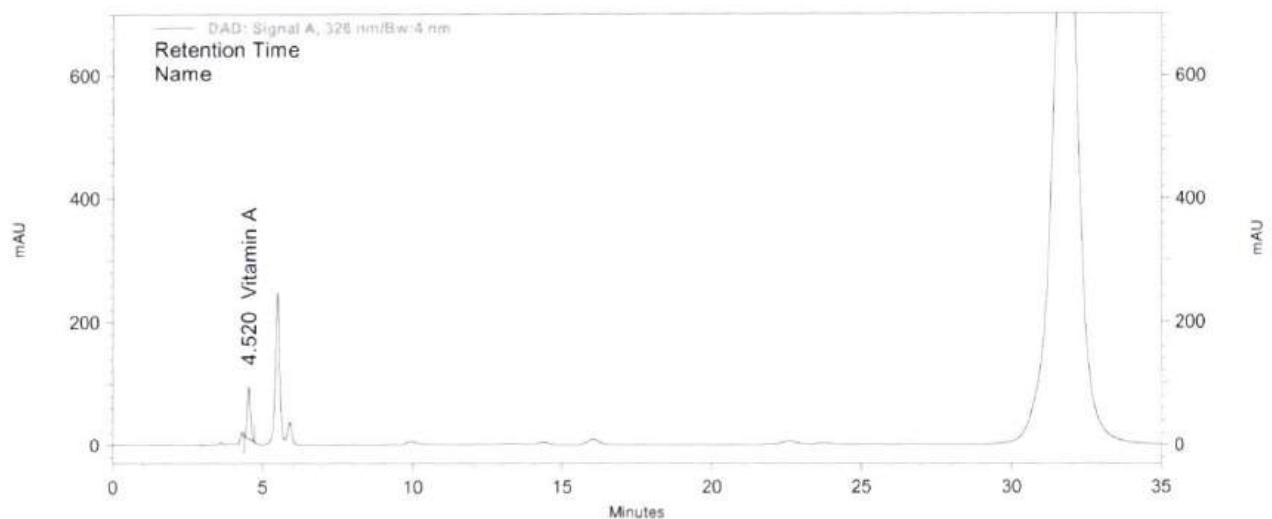
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rsl\Determination of Vitamin A in Food Samples.met

Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rsl\Moringa + Powder_Vitamin A_19-02-2026.rst

Acquired: 19-02-2026 17:09:12 (GMT +05:30)

Processed: 23-02-2026 14:30:46 (GMT +05:30)

Print Time: 23-02-2026 14:40:32 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin A	4.520	1266526	100.000	176884
Totals		1266526	100.000	176884

Analysed By:


23/02/2026

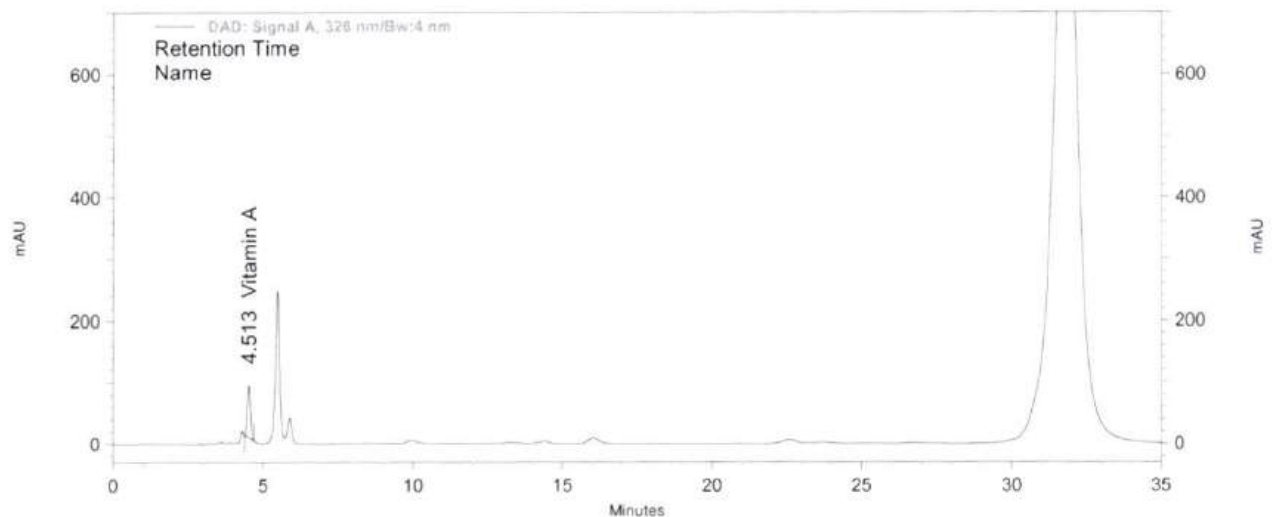
Checked By:


23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)
Processed By: Prajwal N K (prajwal.nk)
Sample ID: Standard_02
Data Description: Vitamin A
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\003.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Determination of Vitamin A in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Moringa + Powder_Vitamin A_19-02-2026.rst
Acquired: 19-02-2026 17:46:10 (GMT +05:30)
Processed: 23-02-2026 14:30:49 (GMT +05:30)
Print Time: 23-02-2026 14:41:07 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin A	4.513	1264402	100.000	177532
Totals		1264402	100.000	177532

Analysed By:

[Signature]
23/02/2026

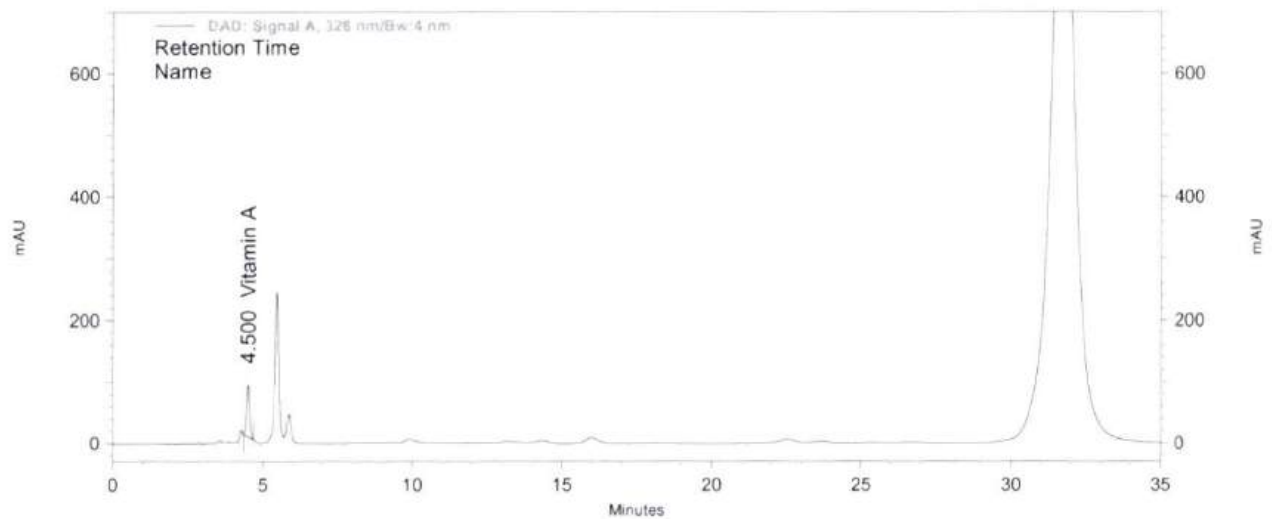
Checked By:

[Signature]
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)
Processed By: Prajwal N K (prajwal.nk)
Sample ID: Standard_03
Data Description: Vitamin A
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\004.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Determination of Vitamin A in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Moringa + Powder_Vitamin A_19-02-2026.rst
Acquired: 19-02-2026 18:23:08 (GMT +05:30)
Processed: 23-02-2026 14:30:52 (GMT +05:30)
Print Time: 23-02-2026 14:41:32 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin A	4.500	1263378	100.000	177734
Totals		1263378	100.000	177734

Analysed By:


23/02/2026

Checked By:


23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)

Processed By: Prajwal N K (prajwal.nk)

Sample ID: Standard_04

Data Description: Vitamin A

Injection Volume (uL): 20

Vial Number: 2

Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin

A_19-02-2026.rsl\005.dat

Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin

A_19-02-2026.rsl\Determination of Vitamin A in Food Samples.met

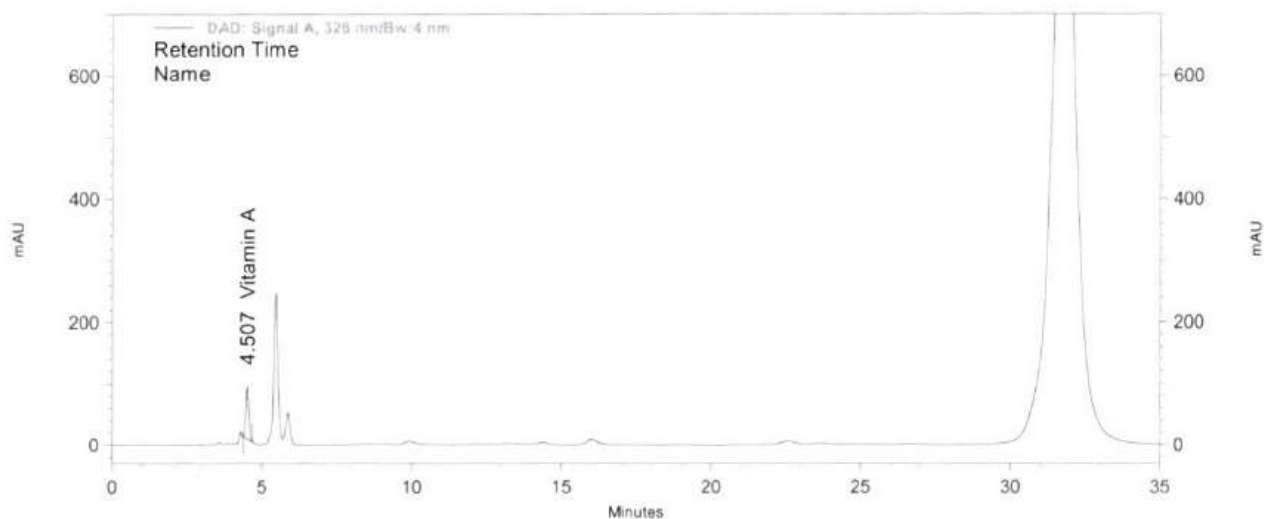
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin

A_19-02-2026.rsl\Moringa + Powder_Vitamin A_19-02-2026.rst

Acquired: 19-02-2026 19:00:13 (GMT +05:30)

Processed: 23-02-2026 14:30:55 (GMT +05:30)

Print Time: 23-02-2026 14:41:57 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin A	4.507	1266486	100.000	178786
Totals		1266486	100.000	178786

Analysed By:

Prajwal
23/02/2026

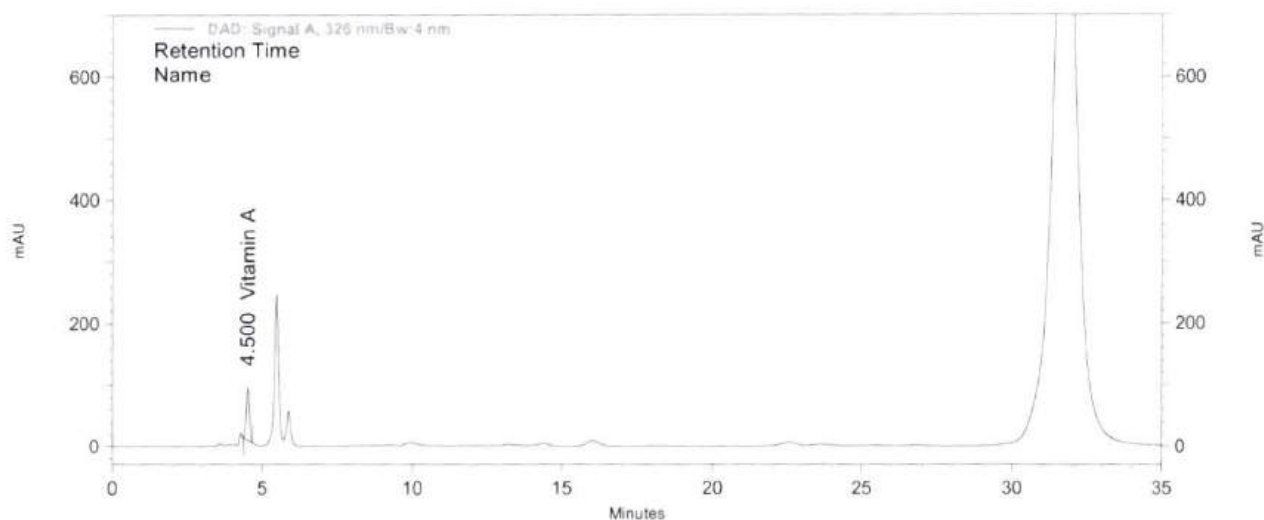
Checked By:

Q
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)
Processed By: Prajwal N K (prajwal.nk)
Sample ID: Standard_05
Data Description: Vitamin A
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\006.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Determination of Vitamin A in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Moringa + Powder_Vitamin A_19-02-2026.rst
Acquired: 19-02-2026 19:37:11 (GMT +05:30)
Processed: 23-02-2026 14:30:58 (GMT +05:30)
Print Time: 23-02-2026 14:42:23 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin A	4.500	1268597	100.000	179008
Totals		1268597	100.000	179008

Analysed By:

Prajwal N K
23/02/2026

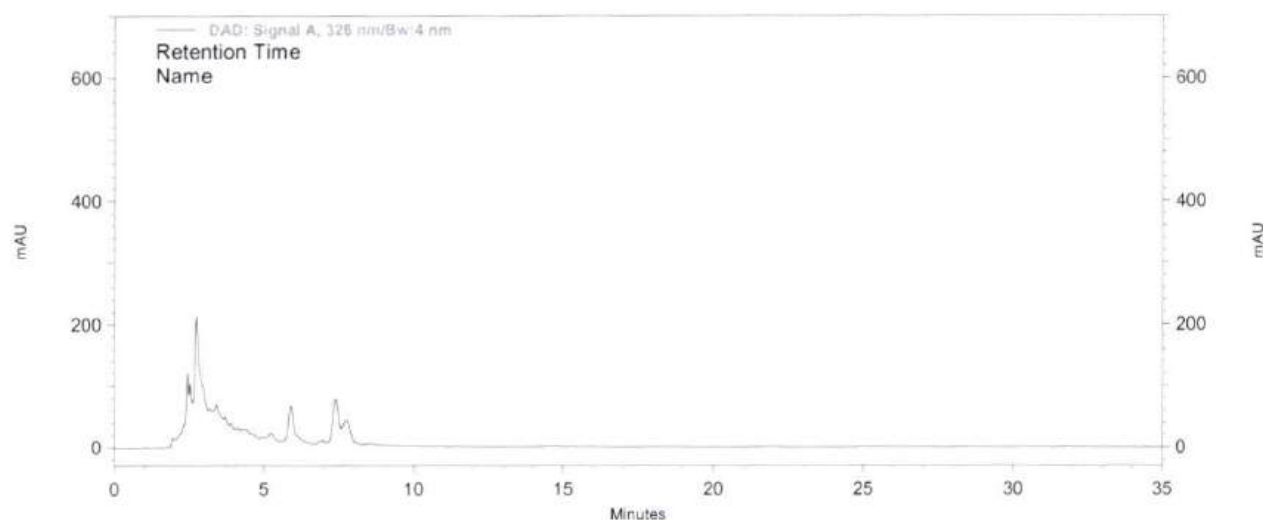
Checked By:

Prajwal N K
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)
Processed By: Prajwal N K (prajwal.nk)
Sample ID: Sample_01(BG202601290096)
Data Description: NA
Injection Volume (uL): 20
Vial Number: 3
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\007.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Determination of Vitamin A in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Moringa + Powder_Vitamin A_19-02-2026.rst
Acquired: 19-02-2026 20:14:12 (GMT +05:30)
Processed: 23-02-2026 14:44:26 (GMT +05:30)
Print Time: 23-02-2026 14:45:34 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm

Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:


23/02/2026

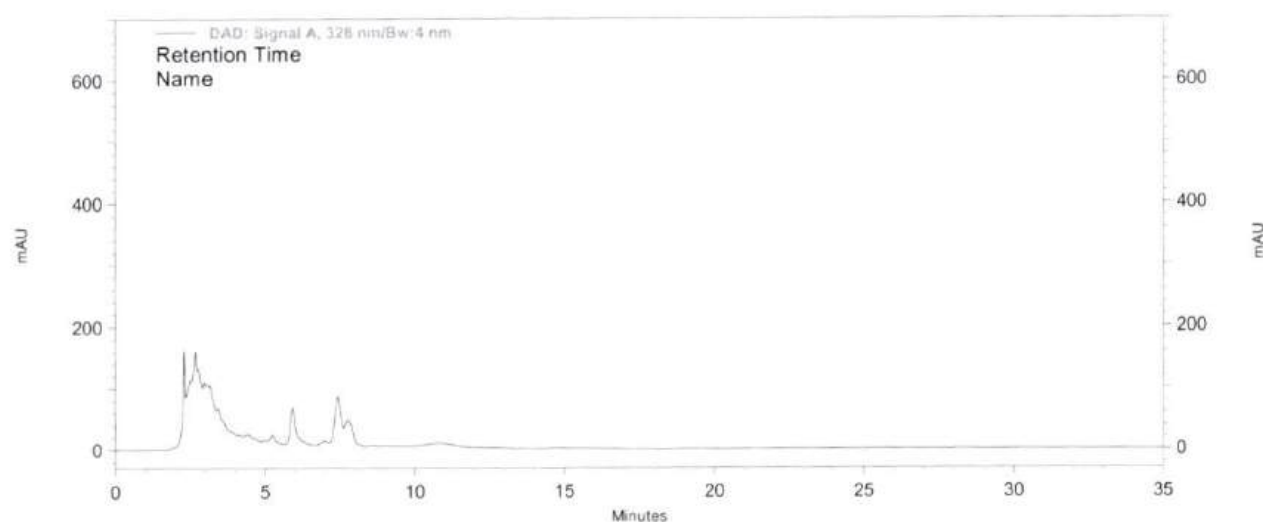
Checked By:


23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)
Processed By: Prajwal N K (prajwal.nk)
Sample ID: Sample_02(BG202601290096)
Data Description: NA
Injection Volume (uL): 20
Vial Number: 3
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rsl\008.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rsl\Determination of Vitamin A in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rsl\Moringa + Powder_Vitamin A_19-02-2026.rst
Acquired: 19-02-2026 20:51:18 (GMT +05:30)
Processed: 23-02-2026 14:44:30 (GMT +05:30)
Print Time: 23-02-2026 14:45:52 (GMT +05:30)



DAD: Signal A,
326 nm/Bw: 4 nm
Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:

23/02/2026.

Checked By:

23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Prajwal N K (prajwal.nk)

Processed By: Prajwal N K (prajwal.nk)

Sample ID: Standard_Bkt_01

Data Description: Vitamin A

Injection Volume (uL): 20

Vial Number: 2

Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\009.dat

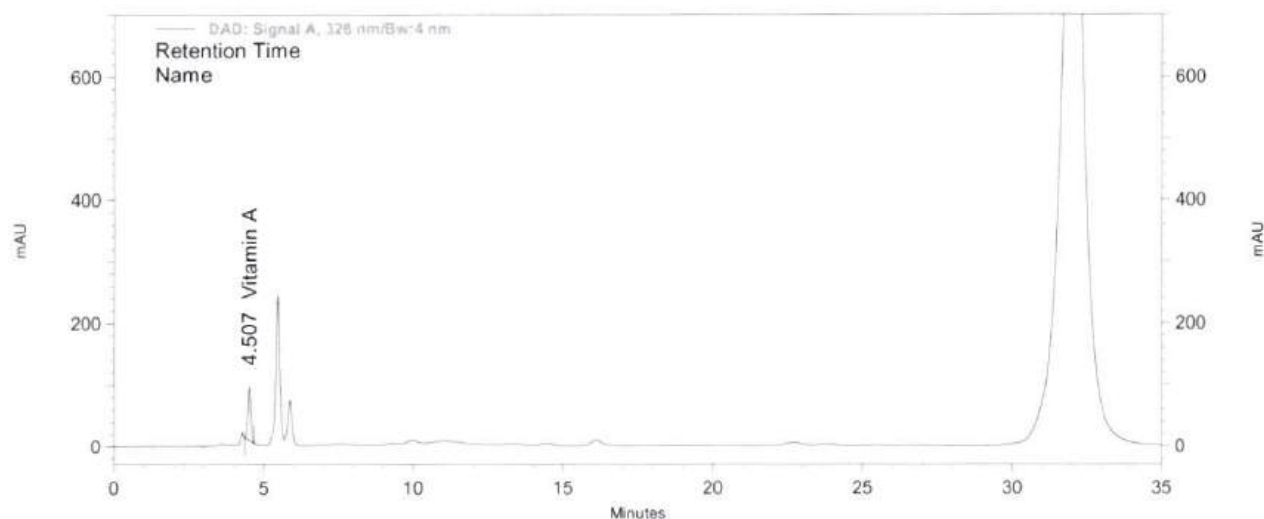
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Determination of Vitamin A in Food Samples.met

Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin A_19-02-2026.rslt\Moringa + Powder_Vitamin A_19-02-2026.rst

Acquired: 19-02-2026 21:28:18 (GMT +05:30)

Processed: 23-02-2026 14:31:05 (GMT +05:30)

Print Time: 23-02-2026 14:42:44 (GMT +05:30)



DAD: Signal A,
326 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin A	4.507	1284932	100.000	180897
Totals		1284932	100.000	180897

Analysed By:


23/02/2026

Checked By:


23/02/2026

Sequence Print

Page 1 of 4

Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\SEQUENCE\Moringa + Powder_Vitamin
E_21-02-2026.seq
Printed: 21-02-2026 15:17:34 (GMT +05:30)
Creation Date: 21-02-2026 15:06:30 (GMT +05:30)
Last Change Date: 21-02-2026 15:07:30 (GMT +05:30)
Method Path: E:\HPLC-003\Method
Data Path:
Autosampler Path: E:\HPLC-003\Sample Prep

=====

Run:	1	Level:	0	Run Type:	Unknown
Sample Amt:	0	ISTD Amt:	1		
Mult Fact:	(1*1*1*1*1/1/1/1/1) = 1				
Rep:	1				
Sample ID:	Blank				
Method:	E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met				
File:	001.dat				
Vial:	1	Volume:	Using Method Volume		
Autosampler:					

Concentration Overrides:
Description: Blank

Run:	2	Level:	0	Run Type:	Unknown
Sample Amt:	0	ISTD Amt:	1		
Mult Fact:	(1*1*1*1*1/1/1/1/1) = 1				
Rep:	1				
Sample ID:	Standard_01				
Method:	E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met				
File:	002.dat				
Vial:	2	Volume:	Using Method Volume		
Autosampler:					

Concentration Overrides:
Description: Vitamin E

Run:	3	Level:	0	Run Type:	Unknown
Sample Amt:	0	ISTD Amt:	1		
Mult Fact:	(1*1*1*1*1/1/1/1/1) = 1				
Rep:	1				
Sample ID:	Standard_02				
Method:	E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met				
File:	003.dat				
Vial:	2	Volume:	Using Method Volume		
Autosampler:					

Concentration Overrides:
Description: Vitamin E

Run:	4	Level:	0	Run Type:	Unknown
Sample Amt:	0	ISTD Amt:	1		
Mult Fact:	(1*1*1*1*1/1/1/1/1) = 1				
Rep:	1				
Sample ID:	Standard_03				
Method:	E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met				
File:	004.dat				
Vial:	2	Volume:	Using Method Volume		
Autosampler:					

Concentration Overrides:
Description: Vitamin E

Run:	5	Level:	0	Run Type:	Unknown
Sample Amt:	0	ISTD Amt:	1		
Mult Fact:	(1*1*1*1*1/1/1/1/1) = 1				
Rep:	1				
Sample ID:	Standard_04				
Method:	E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met				
File:	005.dat				
Vial:	2	Volume:	Using Method Volume		
Autosampler:					

SP 2
21/02/2026

SP
21/02/2026

Sequence Print

Page 2 of 4

Concentration Overrides:
Description: Vitamin E

Run: 6 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_05
Method: E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met
File: 006.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin E

Run: 7 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Sample_01(BG202601290096)
Method: E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met
File: 007.dat
Vial: 3 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: NA

Run: 8 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Sample_02(BG202601290096)
Method: E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met
File: 008.dat
Vial: 3 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: NA

Run: 9 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Blank
Method: E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met
File: 009.dat
Vial: 1 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Blank

Run: 10 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Standard_Bkt
Method: E:\HPLC-3\Method\Determination of Vitamin E in Food Samples.met
File: 010.dat
Vial: 2 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Vitamin E

Run: 11 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1

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Sequence Print

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Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Wash
Method: E:\HPLC-3\Method\Wash method-Pump-C.met
File: 011.dat
Vial: 100 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Wash

Run: 12 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Wash
Method: E:\HPLC-3\Method\Wash method- Pump D.met
File: 012.dat
Vial: 100 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Wash

Run: 13 Level: 0 Run Type: Unknown
Sample Amt: 0 ISTD Amt: 1
Mult Fact: (1*1*1*1*1/1/1/1/1) = 1
Rep: 1
Sample ID: Shut Down
Method: E:\HPLC-3\Method\Shut down.met
File: 013.dat
Vial: 100 Volume: Using Method Volume
Autosampler:

Concentration Overrides:
Description: Shut Down

Audit Trail

=====
Audit Trail: Enabled
Prompt Type: Prompt for reason when saving Sequence

Legend:

Run Type:
UNK = Unknown
CAL = Calibration
CAB = Begin Calibration
CAE = End Calibration
USP = Unspiked
SPK = Spiked
SP1 = Spike 1 of 2
SP2 = Spike 2 of 2
DP = Duplicate
CKS = QC Standard
SHD = Shutdown
LPB = Begin Loop
LPE = End Loop
SSB = Sys Suit Begin
SSE = Sys Suit End
SSS = Sys Suit Std.
SMB = Summary Begin
SMR = Summary Run
SME = Summary End
CCA = Clear All Calibration
CCL = Clear Calibration at Level
CPT = Print Calibration Report
ARP = Average Replicates
CRP = Clear Replicates
VSM = Vial Summary
PAR = Print Additional Reports

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Sequence Print

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SCK = System Check
STA = Startup
BLC = Baseline Check
BLF = Baseline File

P.L.
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P.L.
21/02/2026

Method Name: E: HPLC-3 Method Determination of Vitamin E in Food Samples.met
User Name: Vasantha (vasantha)
Print Time: 21-02-2026 15:16:21 (GMT +05:30)
Created: 13-12-2025 16:24:47 (GMT +05:30)
Modified: 13-12-2025 16:24:48 (GMT +05:30)

---< Instrument Setup >-----

---< General Method Parameters >-----
-----Options
=====

Analyze After Acquisition: Yes
Enable compression for data file: No

Calibration
=====

Automatically Average Replicates: Yes
Number of replicates in rolling average: 0
Response Factor Definition: Amount/Area

Method Description
=====Custom Parameters
=====

None

User Programs
=====

Before Run Program: Disabled
Before Analysis Program: Disabled
After Analysis Program: Disabled
After Export Program: Disabled
Baseline File: Disabled

Column Comp. (G1316A)
=====

Left Temperature Control

Temperature Control Mode:

Temperature:

Temperature Set

25.00 °C

Enable Analysis Left Temperature

Enable Analysis Left Temperature On:

Yes

Enable Analysis Left Temperature Value:

0.8 °C

Right Temperature Control

Right temperature Control Mode:

Combined

Enable Analysis Right Temperature

Enable Analysis Right Temperature On:

Yes

Enable Analysis Right Temperature Value:

0.8 °C

Stop Time

SR
21/02/2026

SR
21/02/2026

Method Name: E: HPLC-3 Method Determination of Vitamin E in Food Samples.met
User Name: Vasantha (vasantha)
Print Time: 21-02-2026 15:16:21 (GMT +05:30)
Created: 13-12-2025 16:24:47 (GMT +05:30)
Modified: 13-12-2025 16:24:48 (GMT +05:30)
Stoptime Mode: As pump/injector

Post Time
Posttime Mode: Off

Timetable

Trace: Column Comp.: Left Temperature
Display : No
Unit : °C

Trace: Column Comp.: Right Temperature
Display : No
Unit : °C

Quat. Pump (G1311C)
=====

Flow: 1.000 mL/min
Low Pressure Limit: 0.00 bar
High Pressure Limit: 400.00 bar
Maximum Flow Gradient: 100.000 mL/min²
Primary Channel: Automatic

Stroke
Automatic Stroke Calculation: Yes

Compress
Compressibility Mode: Compressibility Value Set
Compressibility: 100 10e-6/bar

Stop Time
Stoptime Mode: Time set
Stoptime: 30.00 min

Post Time
Posttime Mode: Off

Solvent Composition

Channel	Name 1	Used	Percent %
A		Yes	100.0
B		No	
C		No	
D		No	

Trace: Quat. Pump: Pressure
Display : No
Unit : bar

Trace: Quat. Pump: Flow
Display : No
Unit : mL/min

SR
21/02/2026

SR
21/02/2026

Method Name: E: HPLC-3 Method Determination of Vitamin E in Food Samples.met
User Name: Vasantha (vasantha)
Print Time: 21-02-2026 15:16:21 (GMT +05:30)
Created: 13-12-2025 16:24:47 (GMT +05:30)
Modified: 13-12-2025 16:24:48 (GMT +05:30)

Trace: Quat. Pump: Solvent Ratio A
 Display : No
 Unit : %

Trace: Quat. Pump: Solvent Ratio B
 Display : No
 Unit : %

Trace: Quat. Pump: Solvent Ratio C
 Display : No
 Unit : %

Trace: Quat. Pump: Solvent Ratio D
 Display : No
 Unit : %

Trace: Quat. Pump: Direction of Piston A
 Display : No
 Unit : <Unknown>

Trace: DAD: Board Temperature
 Display : No
 Unit : °C

Trace: DAD: Optical Unit Temperature
 Display : No
 Unit : °C

Trace: DAD: UV Lamp Anode Voltage
 Display : No
 Unit : V

Sampler (G1329A)
 =====

Auxiliary
 Draw Speed: 200 µL/min
 Eject Speed: 200 µL/min
 Draw Position Offset: 0.0 mm

Injection
 Injection Mode: Injection with needle wash
 Injection Volume: 20.00 µL

Needle Wash
 Needle Wash Location: Wash Vial
 Wash Location: Vial 100

High throughput

Overlapped Injection
 Enable Overlapped Injection: No

Stop Time
 Stoptime Mode: As pump/No limit

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Method Name: E: HPLC-3 Method Determination of Vitamin E in Food Samples.met
User Name: Vasantha (vasantha)
Print Time: 21-02-2026 15:16:21 (GMT +05:30)
Created: 13-12-2025 16:24:47 (GMT +05:30)
Modified: 13-12-2025 16:24:48 (GMT +05:30)

Post Time
 Posttime Mode: Off

Timetable

Trigger Info

=====

Trigger Type: External Trigger
 Injection Source: Als

 ---< >-----

Group Table

=====

None

DAD (G1315D)

=====

Peakwidth: > 0.1 min (2 s response time) (2.5 Hz)
 Slit: 4 nm
 UV Lamp Required: Yes
 Vis Lamp Required: No

Analog Output 1

Analog 1 Zero Offset: 5 %
 Analog 1 Attenuation: 1000 mAU

Analog Output 2

Analog 2 Zero Offset: 5 %
 Analog 2 Attenuation: 1000 mAU

Signals

Signal table

Use Sig.	Signal	Wavelength nm	Bandwidth nm	Use Ref.
Yes	Signal A	280	4	No
No	Signal B			
No	Signal C			
No	Signal D			
No	Signal E			
No	Signal F			
No	Signal G			
No	Signal H			

Prepare Mode

Margin for negative Absorbance: 100 mAU

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Method Name: E: HPLC-3 Method Determination of Vitamin E in Food Samples.met
User Name: Vasantha (vasantha)
Print Time: 21-02-2026 15:16:21 (GMT +05:30)
Created: 13-12-2025 16:24:47 (GMT +05:30)
Modified: 13-12-2025 16:24:48 (GMT +05:30)

Autobalance
Autobalance Prerun: Yes
Autobalance Postrun: No

Spectrum
Spectrum Store: None

Stoptime
Stoptime Mode: As pump/injector

Posttime
Posttime Mode: Off

Timetable

---< DAD: Signal A, 280 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal B, 254 nm/Bw:4 nm >---

No items selected for this section

---< Spectrum Max Plot >---

No items selected for this section

---< DAD: Signal C, 210 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal D, 230 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal E, 280 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal F, 260 nm/Bw:4 nm >---

Vasantha
21/02/2026

Q
21/02/2026

Method Name: E: HPLC-3 Method Determination of Vitamin E in Food Samples.met
User Name: Vasantha (vasantha)
Print Time: 21-02-2026 15:16:21 (GMT +05:30)
Created: 13-12-2025 16:24:47 (GMT +05:30)
Modified: 13-12-2025 16:24:48 (GMT +05:30)
No items selected for this section

---< DAD: Signal G, 270 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Signal H, 290 nm/Bw:4 nm >---

No items selected for this section

---< DAD: Spectrum >---

No items selected for this section

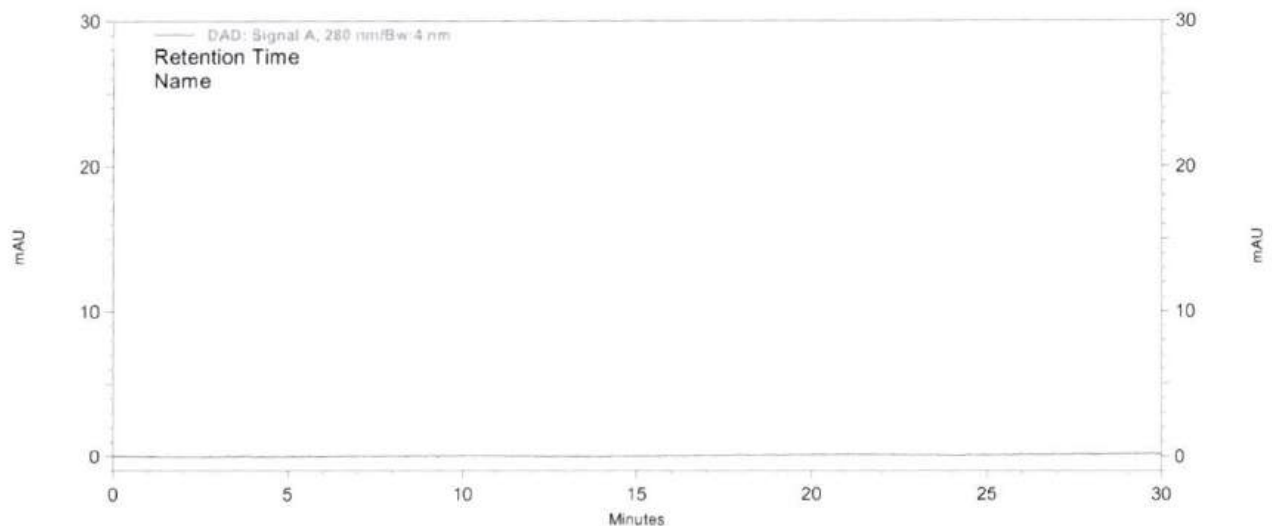
V.S.P
21/02/2026

Gr
21/02/2026



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Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Blank
Data Description: Blank
Injection Volume (uL): 20
Vial Number: 1
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\001.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 15:22:57 (GMT +05:30)
Processed: 23-02-2026 12:18:15 (GMT +05:30)
Print Time: 23-02-2026 12:19:09 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:

Checked By:

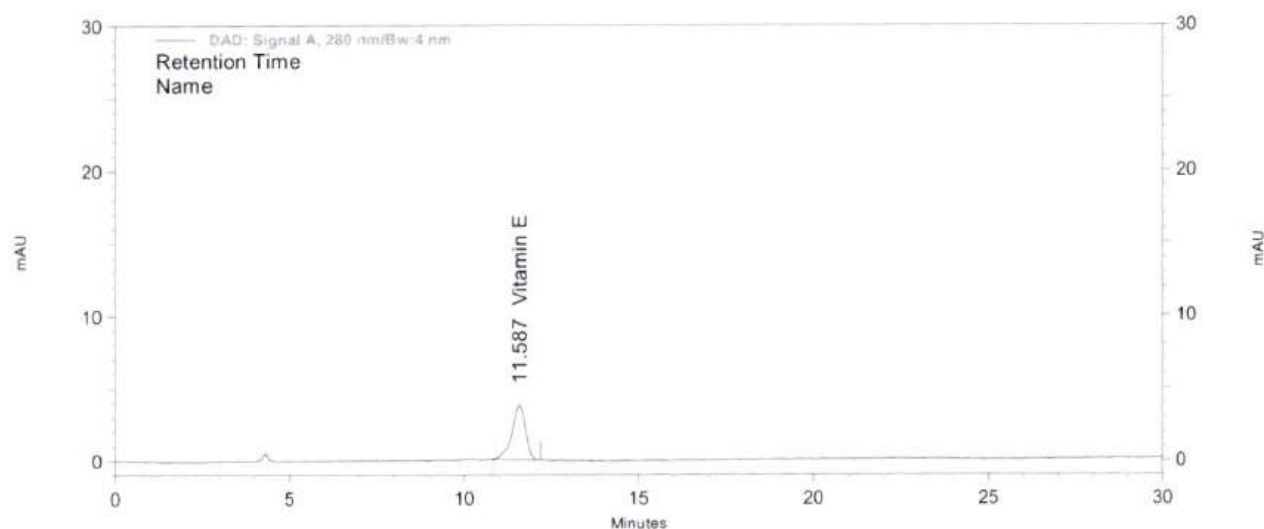
AP-D
23/02/2026

Q
23/02/2026



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Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Standard_01
Data Description: Vitamin E
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\002.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 15:54:58 (GMT +05:30)
Processed: 23-02-2026 12:03:20 (GMT +05:30)
Print Time: 23-02-2026 12:14:28 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin E	11.587	217013	100.000	7950
Totals		217013	100.000	7950

Analysed By:

V.P.
23/02/2026

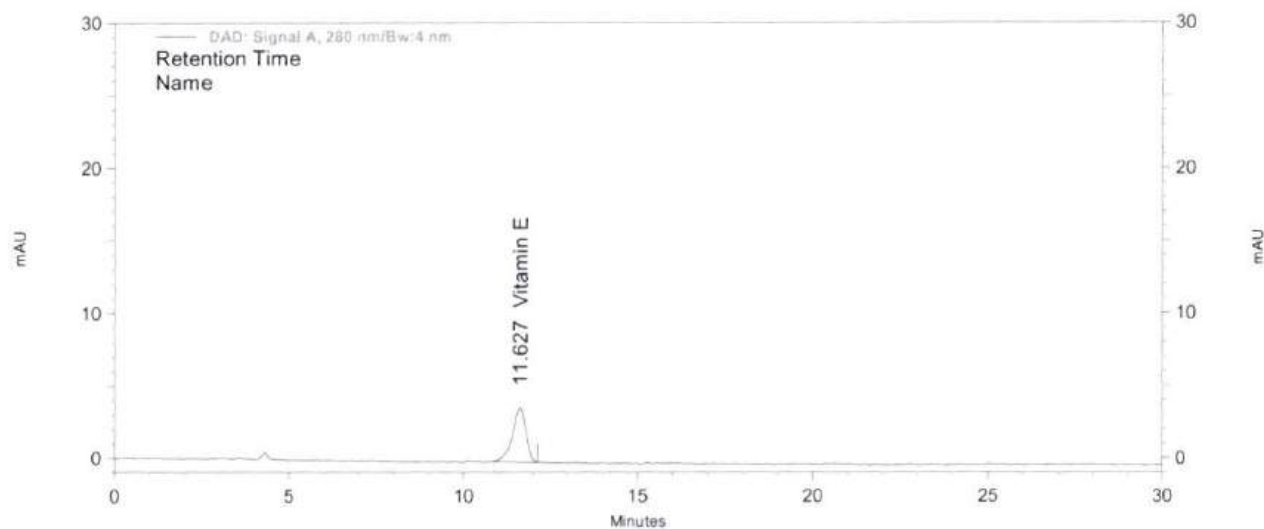
Checked By:

Q
23/02/2026



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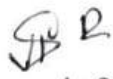
Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Standard_02
Data Description: Vitamin E
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\003.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 16:27:04 (GMT +05:30)
Processed: 23-02-2026 12:03:24 (GMT +05:30)
Print Time: 23-02-2026 12:15:14 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin E	11.627	214815	100.000	7941
Totals		214815	100.000	7941

Analysed By:


23/02/2026

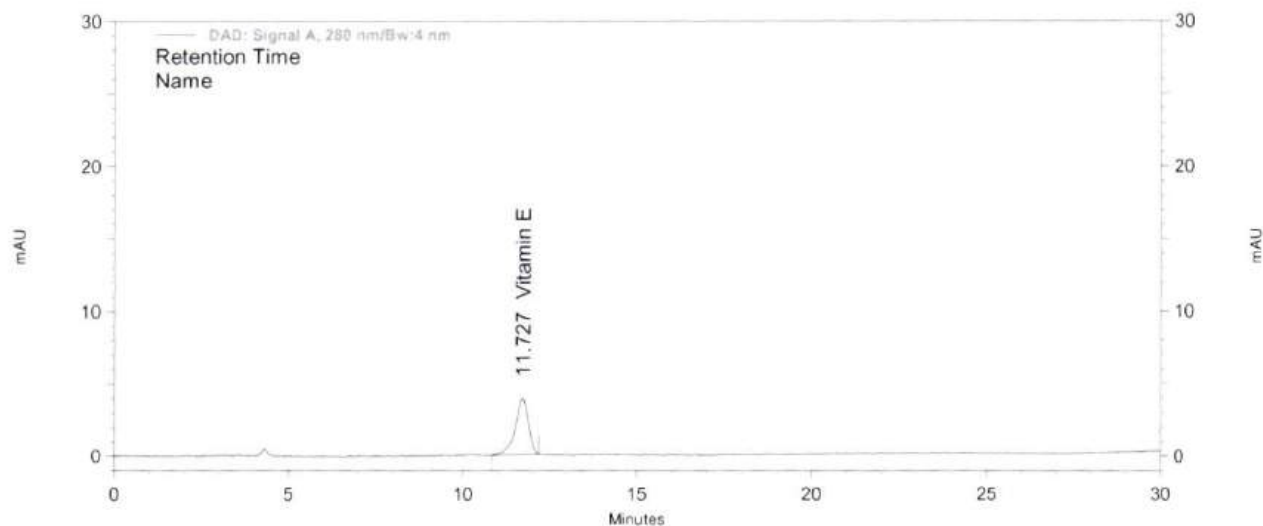
Checked By:


23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Standard_03
Data Description: Vitamin E
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rsl\004.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rsl\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rsl\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 16:59:05 (GMT +05:30)
Processed: 23-02-2026 12:03:27 (GMT +05:30)
Print Time: 23-02-2026 12:15:44 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin E	11.727	218545	100.000	8161
Totals		218545	100.000	8161

Analysed By:

S.P.
23/02/2026

Checked By:

[Signature]
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)

Processed By: Vasantha (vasantha)

Sample ID: Standard_04

Data Description: Vitamin E

Injection Volume (uL): 20

Vial Number: 2

Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\005.dat

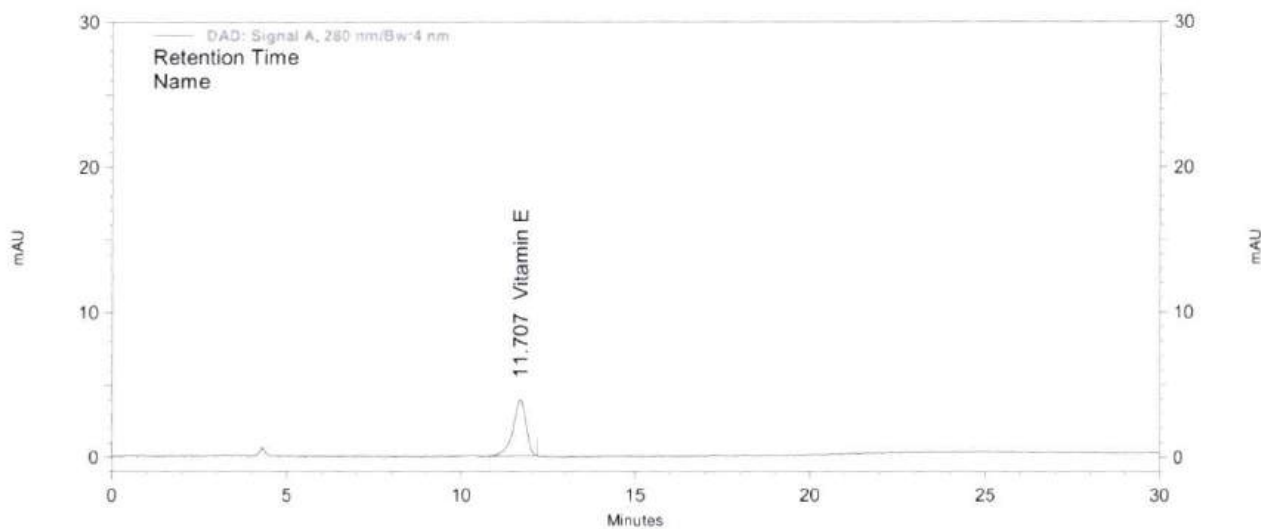
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met

Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst

Acquired: 21-02-2026 17:31:16 (GMT +05:30)

Processed: 23-02-2026 12:03:32 (GMT +05:30)

Print Time: 23-02-2026 12:16:22 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin E	11.707	214160	100.000	8162
Totals		214160	100.000	8162

Analysed By:

VP.L
23/02/2026

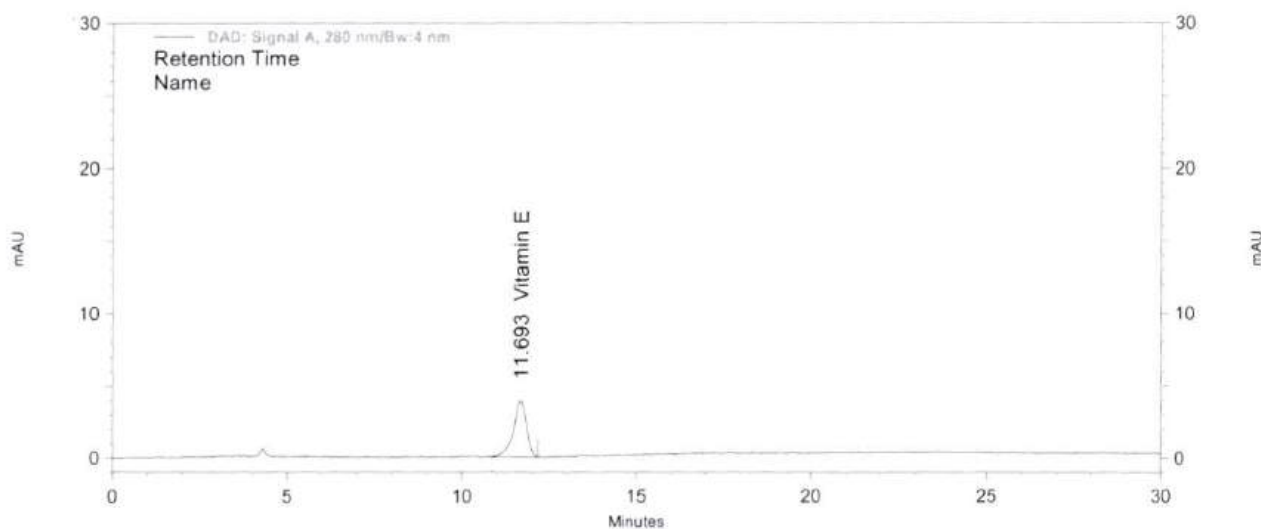
Checked By:

Q
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Standard_05
Data Description: Vitamin E
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\006.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 18:03:24 (GMT +05:30)
Processed: 23-02-2026 12:03:35 (GMT +05:30)
Print Time: 23-02-2026 12:16:48 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin E	11.693	217267	100.000	8182
Totals		217267	100.000	8182

Analysed By:

ASL
23/02/2026

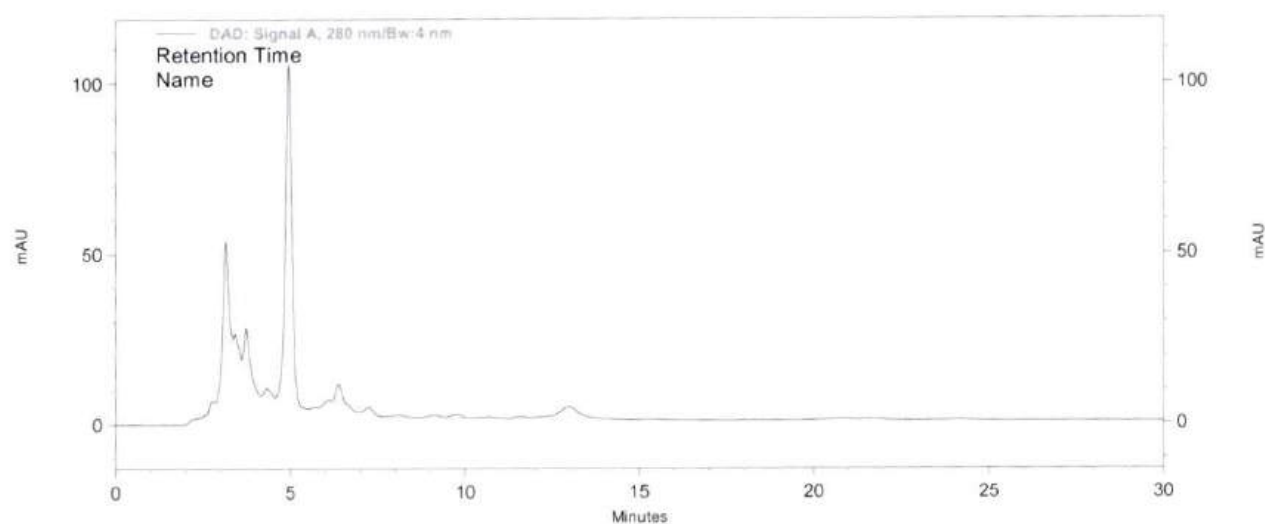
Checked By:

ASL
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Sample_01(BG202601290096)
Data Description: NA
Injection Volume (uL): 20
Vial Number: 3
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\007.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 18:35:21 (GMT +05:30)
Processed: 23-02-2026 12:18:24 (GMT +05:30)
Print Time: 23-02-2026 12:20:12 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:

Checked By:

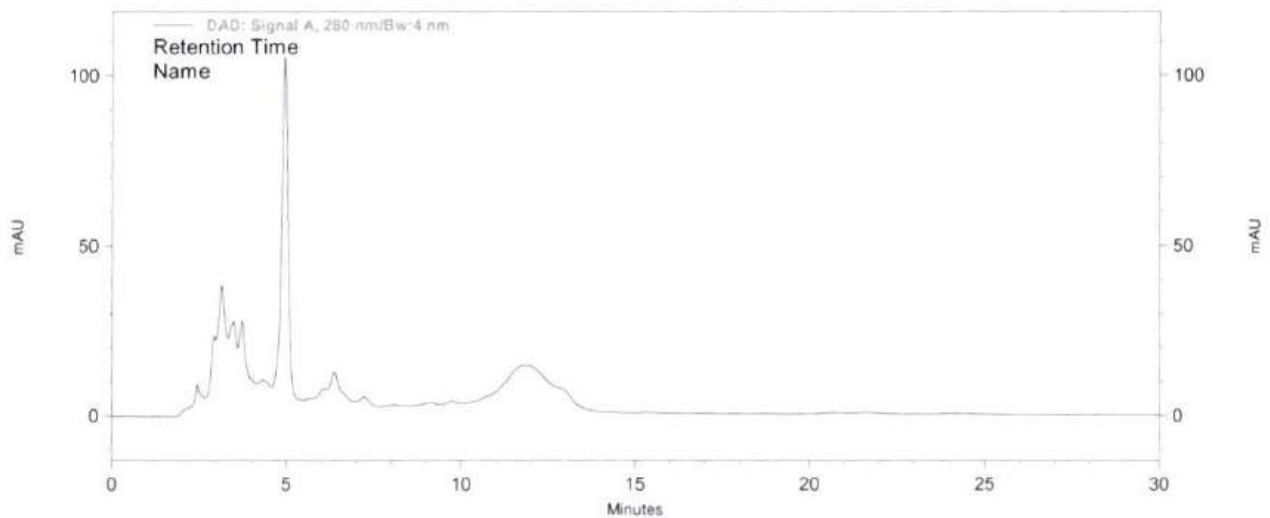
APL
23/02/2026

APL
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Sample_02(BG202601290096)
Data Description: NA
Injection Volume (uL): 20
Vial Number: 3
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rsl\008.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rsl\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rsl\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 19:07:24 (GMT +05:30)
Processed: 23-02-2026 12:18:27 (GMT +05:30)
Print Time: 23-02-2026 12:20:42 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:

Checked By:

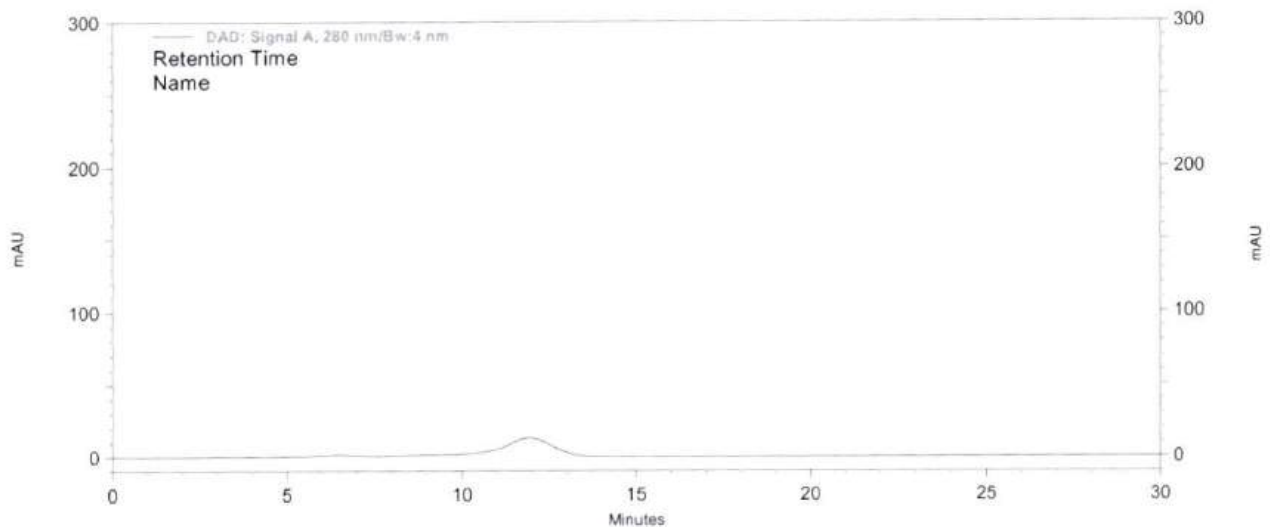
Vs 23/02/2026

23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Blank
Data Description: Blank
Injection Volume (uL): 20
Vial Number: 1
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin
E_21-02-2026.rslt\009.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin
E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin
E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 19:39:24 (GMT +05:30)
Processed: 23-02-2026 12:18:30 (GMT +05:30)
Print Time: 23-02-2026 12:21:54 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
------	----------------	------	--------------	--------

Analysed By:

Checked By:

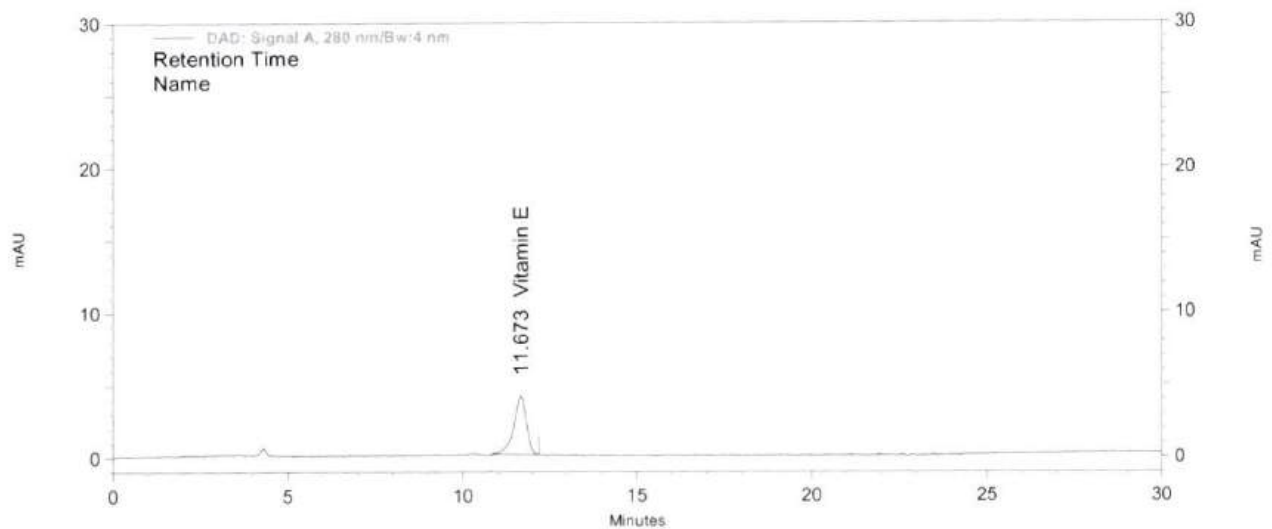
JS R
23/02/2026

JS
23/02/2026



AURIGA RESEARCH PRIVATE LIMITED

Acquired By: Vasantha (vasantha)
Processed By: Vasantha (vasantha)
Sample ID: Standard_Bkt
Data Description: Vitamin E
Injection Volume (uL): 20
Vial Number: 2
Data File: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\010.dat
Method: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Determination of Vitamin E in Food Samples.met
Sequence: E:\HPLC-3\2026\FEB\BATCH ANALYSIS\RESULT\Moringa + Powder_Vitamin E_21-02-2026.rslt\Moringa + Powder_Vitamin E_21-02-2026.rst
Acquired: 21-02-2026 20:11:28 (GMT +05:30)
Processed: 23-02-2026 09:31:17 (GMT +05:30)
Print Time: 23-02-2026 12:17:19 (GMT +05:30)



DAD: Signal A,
280 nm/Bw:4 nm
Results

Name	Retention Time	Area	Area Percent	Height
Vitamin E	11.673	216745	100.000	8399
Totals		216745	100.000	8399

Analysed By:

SP R
23/02/2026

Checked By:

SP
23/02/2026

**ESTIMATION OF METALS
BY ICP-OES**

Code	: ARLBL/CHE/STP-024
Issue No.	: 07
Effective Date	: 06/08/2025
Revision Date	: 06/08/2028

APPENDIX I
ARLBL/CHE/STP-024/FR-01
ESTIMATION OF METALS BY ICP-OES
Page: 1 of 6

Sample Name	Moring + powder		
Report No.	8420260290096	Batch No.	NA
Mfg. Date	25/01/2026	Exp. Date	25/06/2026
Test Parameter	Elemental Impurities	Analysis started Date	19/01/2026
Test method	AA-BL/STP-024	Analysis Completed Date	19/01/2026

Equipment / Instrument details

Name of the instrument	Instrument ID	Calibration done date	Calibration due date
Analytical weighing Balance	ARL/BLEQ/AWB- 014	14/01/2026	14/03/2026
Microwave digester	ARL/BLEQ/MWD- 003	16/01/2026	17/01/2026
ICP-OES	ARL/BLEQ/ICPOES-001	25/01/2026	25/01/2026

PROCEDURE:
Weights of sample:

Working mode Weighing

Date 19.02.2026

Time 8:37:43

Balance S/N 684373

Instrument Id: ARL/BLEQ/AWB-014

0.50619 g

0.00004 g

Date 19.02.2026

Time 8:39:13

Signature *Signature*

19/02/2026 20/02/2026

Code	: ARLBL/CHE/STP-024
Issue No.	: 07
Effective Date	: 06/08/2025
Revision Date	: 06/08/2028

ESTIMATION OF METALS BY ICP-OES

Page: 2 of 6

Reagent preparation: (Diluent)

Transferred 5 ml of Conc. Nitric acid to 500 ml of volumetric flask / Polypropylene tube.

Preparation of standards:

Preparation of standard stock solution A

Transferred 1000 ppm of 0.1 ml of standard into 10 ml of volumetric flask / Polypropylene tube and make up to volume with diluent. (10 ppm)

Preparation of working standard:

Standard 1: Transferred 0.02 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (0.02 ppm)

Standard 2: Transferred 0.05 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (0.05 ppm)

Standard 3: Transferred 0.1 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (0.1 ppm)

Standard 4: Transferred 0.5 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (0.5 ppm)

Standard 5: Transferred 1 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (1 ppm)

Standard 6: Transferred 2 ml of standard stock solution A into 10 ml of volumetric flask or polypropylene tube and make up to volume with diluent. (2 ppm)

Standard 7: Transferred ml of standard stock solution A into ml of volumetric flask / polypropylene tube and make up to volume with diluent. (ppm)

Standard 8: Transferred ml of standard stock solution A into ml of volumetric flask or polypropylene tube and make up to volume with diluent. (ppm)

Standard 9: Transferred ml of standard stock solution A into ml of volumetric flask / polypropylene tube and make up to volume with diluent. (ppm)

**ESTIMATION OF METALS
BY ICP-OES**

Code	: ARLBL/CHE/STP-024
Issue No.	: 07
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Instrument Conditions

Parameters	Set up
Plasma Gas Flow	12 L/min
Auxiliary Gas Flow	0.2 L/min
Nebulizer Gas Flow	0.70 L/min
RF Power Watts	1500 W

Microwave digestion program

Step	Temperature °C/Watts	Temperature ramp (min)	Temperature hold (min)
1	60	10	10
2	180	20	20
3	Cooling	—	10
4	—	—	—

Sample blank:

Prepare the sample blank solution without sample using same reagents.

Sample preparation:

Weighed 0.50615 (g) of the homogeneous sample into the Teflon vessel microwave digestion system / hot plate and added 4 ml of Nitric acid and NA ml of Hydrochloric acid and then added NA ml of H₂O₂, NA ml of HClO₄, NA ml of HF & NA ml of Gold and keep the vessel undisturbed condition for 5 minutes. Swirl gently to complete the wetting. Close the vessel and digest the sample with respective microwave digester program / hot plate. After the digestion transfer the solution quantitatively into 25 ml volumetric flask / polypropylene tube and make up to the mark with milli-Q water. If solution is not clear filter through whatman No-1 or syringe filter 0.22μ or equivalent and use this sample solution for aspirating into instrument.

Note: To achieve the required sample concentration in between the linearity range of standards further dilutions to be made in sample as per requirement.

Calculation:

$$\text{PPM} = \frac{\text{Instrument reading (ppm)} \times \text{Sample dilution (ml)}}{\text{Sample weight (g)}}$$

ESTIMATION OF METALS
BY ICP-OES

Code	: ARLBL/CHE/STP-024
Issue No.	: 07
Effective Date	: 06/08/2025
Revision Date	: 06/08/2028

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Calculation:

For calculation use validated end standards

Handwritten signature
12/08/2026

Page: 5 of 6

Sl. No.	Reference Standards	Batch No.	Expiry date
1	Lead	0006774165	31/01/2031
2	Cadmium	0006737973	30/04/2030
3	Arsenic	0006785430	30/04/2031
4	Mercury	0006703695	30/11/2029
5	Cobalt		
6	Vanadium		
7	Nickel		
8	Thallium		
9	Gold		
10	Palladium		
11	Iridium		
12	Osmium		
13	Rhodium		
14	Ruthenium		
15	Selenium		
16	Silver		
17	Platinum		
18	Lithium		
19	Antimony		
20	Barium		
21	Molybdenum		
22	Copper	0006819014	30/11/2031
23	Fe p	0006765260	30/11/2030
24	Chromium		
25	Calcium	0006645839	31/12/2028
26	Potassium	0006719650	31/01/2030
27	Magnesium	0006816040	30/11/2031
28	Sodium	0006774166	31/01/2031
29	Iron	0006800993	31/07/2031
30	Zinc	0006737872	30/04/2030

**ESTIMATION OF METALS
BY ICP-OES**

Code	: ARLBL/CHE/STP-024
Issue No.	: 07
Effective Date	: 06/08/2025
Revision Date	: 06/08/2028

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Parameters:

Sl. No.	Elements	Limit	Result (ppm)	Status
1	Ca	—	23609.602	Pass/Fail
2	Cu	—	20420	Pass/Fail
3	Zn	—	34.476	Pass/Fail
4	Fe	—	1382.989	Pass/Fail
5	Mg	—	33428.096	Pass/Fail
6	P	—	40501.828	Pass/Fail
7	Pb	—	0.860	Pass/Fail
8	As	—	0.049	Pass/Fail
9	Cd	—	Not detected	Pass/Fail
10	Hg	—	1.432	Pass/Fail
11	K	—	29635.484	Pass/Fail
12				Pass/Fail
13				Pass/Fail
14				Pass/Fail
15				Pass/Fail
16				Pass/Fail
17				Pass/Fail
18				Pass/Fail
19				Pass/Fail
20				Pass/Fail
21				Pass/Fail
22				Pass/Fail
23				Pass/Fail
24				Pass/Fail
25				Pass/Fail

Analysed By: *[Signature]*
Date:

Checked By: *[Signature]*
Date:

Method Loaded

Method Name: Phosphorous.4 (Approved)

IEC File:

Method Description: Phosphorous

Method Last Saved: 23-01-2024 10:05:00

MSF File:

Batch ID:

Sequence No.: 1

Sample ID: Calib Blank 1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:08:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	P 213.617	17.2	17.2	[0.00]	ppm	17:09:16

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
P 213.617	17.2			[0.00]	ppm

Batch ID:

Sequence No.: 2

Sample ID: Calib Std 1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:09:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	P 213.617	24.5	7.2	[0.02]	ppm	17:09:46

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
P 213.617	7.2			[0.02]	ppm

Batch ID:

Sequence No.: 3

Sample ID: Calib Std 2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:10:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

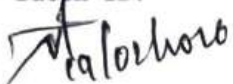
Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	P 213.617	54.8	37.6	[0.05]	ppm	17:10:12

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
P 213.617	37.6			[0.05]	ppm

Batch ID:



Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 17:10:28
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. [0.1]	Calib. Units ppm	Analysis Time
1	P 213.617	123.0	105.7			17:10:40

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units [0.1] ppm
P 213.617	105.7			

=====

Batch ID:
Sequence No.: 5
Sample ID: Calib Std 4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 17:10:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 4

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. [0.5]	Calib. Units ppm	Analysis Time
1	P 213.617	486.1	468.8			17:11:07

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units [0.5] ppm
P 213.617	468.8			

=====

Batch ID:
Sequence No.: 6
Sample ID: Calib Std 5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 17:11:21
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. [1.0]	Calib. Units ppm	Analysis Time
1	P 213.617	825.5	808.3			17:11:34

Mean Data: Calib Std 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units [1.0] ppm
P 213.617	808.3			

=====

Batch ID:
Sequence No.: 7
Sample ID: Calib Std 6
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 17:11:51
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 6

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	P 213.617	1811.9	1794.6	[2.0]	ppm	17:12:03

Mean Data: Calib Std 6

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
P 213.617	1794.6			[2.0] ppm

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
P 213.617	6	Lin Thru 0	0.0	882.5	0.00000	0.999074	

=====

Batch ID:		Autosampler Location:
Sequence No.: 8		Date Collected: 19-02-2026 17:12:21
Sample ID: Reagent Blank 1		Data Type: Original
Analyst:		Initial Sample Vol:
Initial Sample Wt:		Sample Prep Vol:
Dilution:		
Wash Time (before sample):		

Replicate Data: Reagent Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	P 213.617	22.7	5.5	0.006	ppm	0.006	ppm	17:12:34

Mean Data: Reagent Blank 1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
P 213.617	5.5	0.006 ppm		0.006 ppm		

=====

Batch ID:		Autosampler Location:
Sequence No.: 9		Date Collected: 19-02-2026 17:12:53
Sample ID: BG202601290096		Data Type: Original
Analyst:		Initial Sample Vol:
Initial Sample Wt:		Sample Prep Vol:
Dilution:		
Wash Time (before sample):		

Replicate Data: BG202601290096

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	P 213.617	77266.8	77249.5	87.53	ppm	87.53	ppm	17:13:05

Mean Data: BG202601290096

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
P 213.617	77249.5	87.53 ppm		87.53 ppm		

=====

Batch ID:		Autosampler Location:
Sequence No.: 10		Date Collected: 19-02-2026 17:15:06
Sample ID: BG202601290096-100D		Data Type: Original
Analyst:		Initial Sample Vol:
Initial Sample Wt:		Sample Prep Vol:
Dilution:		
Wash Time (before sample):		

Replicate Data: BG202601290096-100D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	P 213.617	746.0	728.8	0.820	ppm	0.820	ppm	17:15:18



Mean Data: BG202601290096-100D

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
P 213.617	728.8	0.820 ppm		0.820 ppm		

Batch ID:

Sequence No.: 11

Sample ID: Blank

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:15:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Blank

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	P 213.617	34.3	17.0	0.013	ppm	0.013	ppm	17:15:53

Mean Data: Blank

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
P 213.617	17.0	0.013 ppm		0.013 ppm		

Batch ID:

Sequence No.: 12

Sample ID: BKT STD-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:16:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BKT STD-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	P 213.617	890.9	873.7	0.984	ppm	0.984	ppm	17:16:22

Mean Data: BKT STD-05

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
P 213.617	873.7	0.984 ppm		0.984 ppm		



=====
Method Loaded

Method Name: ARLBLCHESTP024.1 (Approved)

IEC File:

Method Description: ARLBL/CHE/STP024

Method Last Saved: 03-05-2022 10:58:41

MSF File:

=====
Batch ID:

Sequence No.: 1

Sample ID: Calib Blank 1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:21:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	132.6	132.6	[0.00]	ppm	16:21:59
1	Na 589.592	158.0	158.0	[0.00]	ppm	16:22:11

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
K 766.490	132.6			[0.00]	ppm
Na 589.592	158.0			[0.00]	ppm

=====
Batch ID:

Sequence No.: 2

Sample ID: Calib Std 1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:22:53

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	360.9	228.2	[0.02]	ppm	16:23:10
1	Na 589.592	2284.6	2126.6	[0.02]	ppm	16:23:20

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
K 766.490	228.2			[0.02]	ppm
Na 589.592	2126.6			[0.02]	ppm

=====
Batch ID:

Sequence No.: 3

Sample ID: Calib Std 2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:23:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

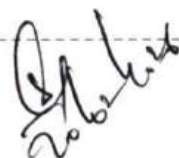
Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	708.4	575.8	[0.05]	ppm	16:23:56
1	Na 589.592	4217.1	4059.0	[0.05]	ppm	16:24:06

Mean Data: Calib Std 2

Mean Corrected

Calib



Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
K 766.490	575.8			[0.05]	ppm
Na 589.592	4059.0			[0.05]	ppm

Batch ID:

Sequence No.: 4

Sample ID: Calib Std 3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:24:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	1244.4	1111.8	[0.1]	ppm	16:24:43
1	Na 589.592	12936.3	12778.3	[0.1]	ppm	16:24:53

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
K 766.490	1111.8			[0.1]	ppm
Na 589.592	12778.3			[0.1]	ppm

Batch ID:

Sequence No.: 5

Sample ID: Calib Std 4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:25:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 4

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	7706.1	7573.5	[0.5]	ppm	16:25:29
1	Na 589.592	52013.9	51855.8	[0.5]	ppm	16:25:39

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
K 766.490	7573.5			[0.5]	ppm
Na 589.592	51855.8			[0.5]	ppm

Batch ID:

Sequence No.: 6

Sample ID: Calib Std 5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:25:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	15441.8	15309.2	[1.0]	ppm	16:26:14
1	Na 589.592	102625.9	102467.9	[1.0]	ppm	16:26:24

Mean Data: Calib Std 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
K 766.490	15309.2			[1.0]	ppm
Na 589.592	102467.9			[1.0]	ppm

Lab 2026

2026

Batch ID:
Sequence No.: 7
Sample ID: Calib Std 6
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 16:26:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 6

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490	30199.1	30066.4	[2.0]	ppm	16:26:59
1	Na 589.592	219044.7	218886.6	[2.0]	ppm	16:27:08

Mean Data: Calib Std 6

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib. Units
K 766.490	30066.4			[2.0]	ppm
Na 589.592	218886.6			[2.0]	ppm

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
K 766.490	6	Lin Thru 0	0.0	15080	0.00000	0.999893	
Na 589.592	6	Lin Thru 0	0.0	107900	0.00000	0.999599	

Batch ID:
Sequence No.: 8
Sample ID: Reagent Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 16:27:45
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Reagent Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	192.6	59.9	0.004	ppm	0.004	ppm	16:28:02
1	Na 589.592	562.5	404.5	0.004	ppm	0.004	ppm	16:28:13

Mean Data: Reagent Blank 1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	59.9	0.004	ppm		0.004	ppm		
Na 589.592	404.5	0.004	ppm		0.004	ppm		

Batch ID:
Sequence No.: 9
Sample ID: BG202601290096
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 16:29:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202601290096

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	6869627.6	6869495.0	455.5	ppm	455.5	ppm	16:29:49
1	Na 589.592	1056366.8	1056208.7	9.788	ppm	9.788	ppm	16:29:56

Mean Data: BG202601290096

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Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	6869495.0	455.5	ppm		455.5	ppm		
Na 589.592	1056208.7	9.788	ppm		9.788	ppm		

Batch ID:

Sequence No.: 10

Sample ID: BG202601290096-1000D

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:32:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202601290096-1000D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	9234.2	9101.5	0.600	ppm	0.600	ppm	16:32:21
1	Na 589.592	2368.1	2210.0	0.017	ppm	0.017	ppm	16:32:31

Mean Data: BG202601290096-1000D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	9101.5	0.600	ppm		0.600	ppm		
Na 589.592	2210.0	0.017	ppm		0.017	ppm		

Batch ID:

Sequence No.: 11

Sample ID: BG202601300025

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:34:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202601300025

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	859984.2	859851.6	57.01	ppm	57.01	ppm	16:34:32
1	Na 589.592	28631906.6	28631748.6	265.4	ppm	265.4	ppm	16:34:39

Mean Data: BG202601300025

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	859851.6	57.01	ppm		57.01	ppm		
Na 589.592	28631748.6	265.4	ppm		265.4	ppm		

Batch ID:

Sequence No.: 12

Sample ID: BG202601300025-1000D

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:36:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202601300025-1000D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	2179.1	2046.5	0.132	ppm	0.132	ppm	16:36:49
1	Na 589.592	57747.8	57589.8	0.530	ppm	0.530	ppm	16:36:59

Mean Data: BG202601300025-1000D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	2046.5	0.132	ppm		0.132	ppm		

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Na 589.592

57589.8

0.530 ppm

0.530 ppm

Batch ID:

Sequence No.: 13

Sample ID: BG202602070053

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:41:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202602070053

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	29476.4	29343.7	1.942	ppm	1.942	ppm	16:41:38
1	Na 589.592	214846.6	214688.6	1.987	ppm	1.987	ppm	16:41:48

Mean Data: BG202602070053

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	29343.7	1.942	ppm		1.942	ppm		
Na 589.592	214688.6	1.987	ppm		1.987	ppm		

Batch ID:

Sequence No.: 14

Sample ID: BG202602020045

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:42:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202602020045

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	25682.9	25550.2	1.690	ppm	1.690	ppm	16:42:36
1	Na 589.592	22756135.9	22755977.9	211.0	ppm	211.0	ppm	16:42:46

Mean Data: BG202602020045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	25550.2	1.690	ppm		1.690	ppm		
Na 589.592	22755977.9	211.0	ppm		211.0	ppm		

Batch ID:

Sequence No.: 15

Sample ID: BG202602020045-500D

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:45:30

Data Type: Original

Initial Sample Vol:

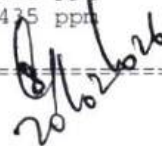
Sample Prep Vol:

Replicate Data: BG202602020045-500D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	263.4	130.8	0.005	ppm	0.005	ppm	16:45:47
1	Na 589.592	47484.3	47326.3	0.435	ppm	0.435	ppm	16:45:57

Mean Data: BG202602020045-500D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	130.8	0.005	ppm		0.005	ppm		
Na 589.592	47326.3	0.435	ppm		0.435	ppm		



Batch ID:
Sequence No.: 16
Sample ID: BG202602020046
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 16:46:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202602020046

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	697.6	565.0	0.033	ppm	0.033	ppm	16:46:48
1	Na 589.592	34022.2	33864.2	0.310	ppm	0.310	ppm	16:46:59

Mean Data: BG202602020046

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	565.0	0.033	ppm		0.033	ppm		
Na 589.592	33864.2	0.310	ppm		0.310	ppm		

Batch ID:
Sequence No.: 17
Sample ID: BG202602030003
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 16:47:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202602030003

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	17890486.2	17890353.6	1186	ppm	1186	ppm	16:48:13
1	Na 589.592	8423671.6	8423513.6	78.09	ppm	78.09	ppm	16:48:22

Mean Data: BG202602030003

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	17890353.6	1186	ppm		1186	ppm		
Na 589.592	8423513.6	78.09	ppm		78.09	ppm		

Batch ID:
Sequence No.: 18
Sample ID: BG202602030003-1000D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 19-02-2026 16:50:21
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202602030003-1000D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	23980.8	23848.2	1.577	ppm	1.577	ppm	16:50:38
1	Na 589.592	12613.0	12455.0	0.112	ppm	0.112	ppm	16:50:47

Mean Data: BG202602030003-1000D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	23848.2	1.577	ppm		1.577	ppm		
Na 589.592	12455.0	0.112	ppm		0.112	ppm		

Batch ID:
Sequence No.: 19
Sample ID: BG202602030004

Autosampler Location:
Date Collected: 19-02-2026 16:51:18

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Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202602030004

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	22611590.3	22611457.7	1499	ppm	1499	ppm	16:51:35
1	Na 589.592	9080163.7	9080005.6	84.17	ppm	84.17	ppm	16:51:44

Mean Data: BG202602030004

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	22611457.7	1499	ppm		1499	ppm		
Na 589.592	9080005.6	84.17	ppm		84.17	ppm		

Batch ID:

Sequence No.: 20

Sample ID: BG202602030004-1000D

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:52:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202602030004-1000D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	31468.8	31336.1	2.074	ppm	2.074	ppm	16:52:51
1	Na 589.592	13043.8	12885.7	0.116	ppm	0.116	ppm	16:53:00

Mean Data: BG202602030004-1000D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	31336.1	2.074	ppm		2.074	ppm		
Na 589.592	12885.7	0.116	ppm		0.116	ppm		

Batch ID:

Sequence No.: 21

Sample ID: Blank

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:53:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Blank

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	3917.4	3784.7	0.247	ppm	0.247	ppm	16:53:46
1	Na 589.592	1560.9	1402.9	0.009	ppm	0.009	ppm	16:53:56

Mean Data: Blank

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	3784.7	0.247	ppm		0.247	ppm		
Na 589.592	1402.9	0.009	ppm		0.009	ppm		

Batch ID:

Sequence No.: 22

Sample ID: BKT STD-05

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location:

Date Collected: 19-02-2026 16:54:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Wash Time (before sample):

Replicate Data: BKT STD-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490	18045.6	17913.0	1.184	ppm	1.184	ppm	16:54:42
1	Na 589.592	101378.4	101220.4	0.935	ppm	0.935	ppm	16:54:52

Mean Data: BKT STD-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
K 766.490	17913.0	1.184	ppm		1.184	ppm		
Na 589.592	101220.4	0.935	ppm		0.935	ppm		



Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Ca 422.673	12786.5	12678.3	[0.1]	ppm	16:58:09

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib. Units
Ca 422.673	12678.3			[0.1]	ppm

Batch ID:

Sequence No.: 5

Sample ID: Calib Std 4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:58:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 4

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Ca 422.673	40995.0	40886.9	[0.5]	ppm	16:58:39

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib. Units
Ca 422.673	40886.9			[0.5]	ppm

Batch ID:

Sequence No.: 6

Sample ID: Calib Std 5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:58:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Ca 422.673	77662.8	77554.6	[1.0]	ppm	16:59:11

Mean Data: Calib Std 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib. Units
Ca 422.673	77554.6			[1.0]	ppm

Batch ID:

Sequence No.: 7

Sample ID: Calib Std 6

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 16:59:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 6

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Ca 422.673	150328.2	150220.1	[2.0]	ppm	16:59:39

Mean Data: Calib Std 6

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Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Ca 422.673	150220.1			[2.0] ppm

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ca 422.673	6	Lin Thru 0	0.0	76060	0.00000	0.998413	

=====

Batch ID:	
Sequence No.: 8	Autosampler Location:
Sample ID: Reagent Blank 1	Date Collected: 19-02-2026 16:59:58
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:
Wash Time (before sample):	

Replicate Data: Reagent Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	1054.9	946.8	0.012	ppm	0.012	ppm	17:00:11

Mean Data: Reagent Blank 1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ca 422.673	946.8	0.012 ppm		0.012 ppm		

=====

Batch ID:	
Sequence No.: 9	Autosampler Location:
Sample ID: BG202601290096	Date Collected: 19-02-2026 17:00:33
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:
Wash Time (before sample):	

Replicate Data: BG202601290096

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	16182151.9	16182043.7	212.7	ppm	212.7	ppm	17:00:45

Mean Data: BG202601290096

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ca 422.673	16182043.7	212.7 ppm		212.7 ppm		

=====

Batch ID:	
Sequence No.: 10	Autosampler Location:
Sample ID: BG202601290096-1000D	Date Collected: 19-02-2026 17:01:26
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:
Wash Time (before sample):	

Replicate Data: BG202601290096-1000D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	37432.9	37324.7	0.478	ppm	0.478	ppm	17:01:38

Mean Data: BG202601290096-1000D

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ca 422.673	37324.7	0.478 ppm		0.478 ppm		

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Batch ID:

Sequence No.: 11

Sample ID: BG202602020045

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:02:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202602020045

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	20958.7	20850.5	0.262	ppm	0.262	ppm	17:02:27

Mean Data: BG202602020045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ca 422.673	20850.5	0.262	ppm		0.262	ppm		

Batch ID:

Sequence No.: 12

Sample ID: BG202602020046

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:03:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202602020046

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	55450.8	55342.7	0.715	ppm	0.715	ppm	17:04:09

Mean Data: BG202602020046

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ca 422.673	55342.7	0.715	ppm		0.715	ppm		

Batch ID:

Sequence No.: 13

Sample ID: Blank

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:05:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Blank

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	1092.4	984.2	0.000	ppm	0.000	ppm	17:05:18

Mean Data: Blank

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ca 422.673	984.2	0.000	ppm		0.000	ppm		

Batch ID:

Sequence No.: 14

Sample ID: BKT STD-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 17:05:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BKT STD-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Ca 422.673	82319.2	82211.0	1.068	ppm	1.068	ppm	17:05:53

Mean Data: BKT STD-05

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ca 422.673	82211.0	1.068 ppm		1.068 ppm		

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Co 228.616	62.3	0.001	ppm	0.001	ppm
Cr 267.716	1684.7	0.020	ppm	0.020	ppm
Cu 327.393	-0.6	-0.047	ppm	-0.047	ppm
Fe 238.204	193.7	0.003	ppm	0.003	ppm
Hg 253.652	347.4	0.041	ppm	0.041	ppm
Mg 285.213	106.6	0.000	ppm	0.000	ppm
Mn 257.610	1252.0	0.001	ppm	0.001	ppm
Ni 231.604	1163.6	0.030	ppm	0.030	ppm
Pb 220.353	61.8	0.010	ppm	0.010	ppm
V 292.464	1318.8	0.013	ppm	0.013	ppm
Zn 213.857	32.2	0.000	ppm	0.000	ppm

Batch ID:

Sequence No.: 26

Sample ID: BG202601290096

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 14:41:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202601290096

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Cu 327.393	7732.4	7584.9	0.049	ppm	0.049	ppm	14:42:10
1	Fe 238.204	135314.2	135156.7	2.991	ppm	2.991	ppm	14:42:19
1	Mg 285.213	4559022.4	4558825.1	68.81	ppm	68.81	ppm	14:42:26
1	Zn 213.857	22649.7	22581.5	0.698	ppm	0.698	ppm	14:42:32
1	As 228.812	2520.7	170.4	0.001	ppm	0.001	ppm	14:42:46
1	Cd 228.802	2178.9	125.0	0.000	ppm	0.000	ppm	14:42:53
1	Co 228.616	298.2	80.5	0.001	ppm	0.001	ppm	14:43:01
1	Cr 267.716	13800.8	12775.1	0.140	ppm	0.140	ppm	14:43:09
1	Hg 253.652	277.6	255.4	0.029	ppm	0.029	ppm	14:43:16
1	Mn 257.610	1015792.6	1010460.5	0.845	ppm	0.845	ppm	14:43:24
1	Ni 231.604	5673.1	2942.1	0.075	ppm	0.075	ppm	14:43:29
1	Pb 220.353	968.3	150.2	0.017	ppm	0.017	ppm	14:43:37
1	V 292.464	8354.1	1453.3	0.015	ppm	0.015	ppm	14:43:47

Mean Data: BG202601290096

Analyte	Mean Corrected Intensity	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
As 228.812	170.4	0.001 ppm		0.001 ppm		
Cd 228.802	125.0	0.000 ppm		0.000 ppm		
Co 228.616	80.5	0.001 ppm		0.001 ppm		
Cr 267.716	12775.1	0.140 ppm		0.140 ppm		
Cu 327.393	7584.9	0.049 ppm		0.049 ppm		
Fe 238.204	135156.7	2.991 ppm		2.991 ppm		
Hg 253.652	255.4	0.029 ppm		0.029 ppm		
Mg 285.213	4558825.1	68.81 ppm		68.81 ppm		
Mn 257.610	1010460.5	0.845 ppm		0.845 ppm		
Ni 231.604	2942.1	0.075 ppm		0.075 ppm		
Pb 220.353	150.2	0.017 ppm		0.017 ppm		
V 292.464	1453.3	0.015 ppm		0.015 ppm		
Zn 213.857	22581.5	0.698 ppm		0.698 ppm		

Batch ID:

Sequence No.: 27

Sample ID: BG202601290096-100D

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 14:47:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202601290096-100D

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Cu 327.393	311.2	163.7	-0.045	ppm	-0.045	ppm	14:47:29
1	Fe 238.204	1459.8	1302.3	0.028	ppm	0.028	ppm	14:47:37

1	Mg 285.213	45202.2	45005.0	0.678	ppm	0.678	ppm	14:47:45
1	Zn 213.857	263.9	195.8	0.005	ppm	0.005	ppm	14:47:53
1	As 228.812	1943.4	-406.9	-0.002	ppm	-0.002	ppm	14:48:07
1	Cd 228.802	1865.9	-188.1	-0.001	ppm	-0.001	ppm	14:48:15
1	Co 228.616	207.5	-10.2	0.000	ppm	0.000	ppm	14:48:22
1	Cr 267.716	1410.1	384.5	0.005	ppm	0.005	ppm	14:48:31
1	Hg 253.652	231.3	209.0	0.022	ppm	0.022	ppm	14:48:40
1	Mn 257.610	14267.8	8935.6	0.008	ppm	0.008	ppm	14:48:49
1	Ni 231.604	2963.5	232.6	0.007	ppm	0.007	ppm	14:48:58
1	Pb 220.353	755.9	-62.1	-0.000	ppm	-0.000	ppm	14:49:05
1	V 292.464	8697.8	1796.9	0.019	ppm	0.019	ppm	14:49:14

Mean Data: BG202601290096-100D

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
As 228.812	-406.9	-0.002	ppm	*	-0.002	ppm	
Cd 228.802	-188.1	-0.001	ppm		-0.001	ppm	
Co 228.616	-10.2	0.000	ppm		0.000	ppm	
Cr 267.716	384.5	0.005	ppm		0.005	ppm	
Cu 327.393	163.7	-0.045	ppm		-0.045	ppm	
Fe 238.204	1302.3	0.028	ppm		0.028	ppm	
Hg 253.652	209.0	0.022	ppm		0.022	ppm	
Mg 285.213	45005.0	0.678	ppm		0.678	ppm	
Mn 257.610	8935.6	0.008	ppm		0.008	ppm	
Ni 231.604	232.6	0.007	ppm		0.007	ppm	
Pb 220.353	-62.1	-0.000	ppm		-0.000	ppm	
V 292.464	1796.9	0.019	ppm		0.019	ppm	
Zn 213.857	195.8	0.005	ppm		0.005	ppm	

Batch ID:

Sequence No.: 28

Sample ID: BG202602030003

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location:

Date Collected: 19-02-2026 14:49:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BG202602030003

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Cu 327.393	151.0	3.5	-0.047	ppm	-0.047	ppm	14:50:01
1	Fe 238.204	414.3	256.7	0.004	ppm	0.004	ppm	14:50:10
1	Mg 285.213	379.9	182.7	0.002	ppm	0.002	ppm	14:50:19
1	Zn 213.857	70.1	2.0	-0.001	ppm	-0.001	ppm	14:50:27
1	As 228.812	2451.1	100.9	0.001	ppm	0.001	ppm	14:50:41
1	Cd 228.802	2205.6	151.6	0.001	ppm	0.001	ppm	14:50:49
1	Co 228.616	228.1	10.4	0.000	ppm	0.000	ppm	14:50:56
1	Cr 267.716	1545.6	519.9	0.007	ppm	0.007	ppm	14:51:04
1	Hg 253.652	268.5	246.2	0.027	ppm	0.027	ppm	14:51:12
1	Mn 257.610	5654.3	322.1	0.000	ppm	0.000	ppm	14:51:20
1	Ni 231.604	3706.4	975.4	0.026	ppm	0.026	ppm	14:51:29
1	Pb 220.353	826.6	8.6	0.005	ppm	0.005	ppm	14:51:36
1	V 292.464	8509.3	1608.5	0.017	ppm	0.017	ppm	14:51:45

Mean Data: BG202602030003

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
As 228.812	100.9	0.001	ppm		0.001	ppm	
Cd 228.802	151.6	0.001	ppm		0.001	ppm	
Co 228.616	10.4	0.000	ppm		0.000	ppm	
Cr 267.716	519.9	0.007	ppm		0.007	ppm	
Cu 327.393	3.5	-0.047	ppm		-0.047	ppm	
Fe 238.204	256.7	0.004	ppm		0.004	ppm	
Hg 253.652	246.2	0.027	ppm		0.027	ppm	
Mg 285.213	182.7	0.002	ppm		0.002	ppm	
Mn 257.610	322.1	0.000	ppm		0.000	ppm	
Ni 231.604	975.4	0.026	ppm		0.026	ppm	
Pb 220.353	8.6	0.005	ppm		0.005	ppm	

T. Alonhoro

D. Alonhoro



uriga Research

ELEMENTAL IMPURITIES - EXCEL SHEET CALCULATION FOR BATCH ANALYSIS (ICP-OES)

Sheet No.: SS-10/00

Product Name

MORINGA + POWDER

Report Number

BG202601290096

Date of Analysis

19-02-2026

Test preparation Details

V1 (mL)	V2 (mL)	V3 (mL)	V4 (mL)	V5 (mL)	V6 (mL)	V7 (mL)
25	0.05	50	1	1	1	1

Sl No	Name of the elements	Obtained sample concentration (in ppm)	Weight (gm)	Result (ppm)	Sl No	Name of the elements	Obtained sample concentration (in ppm)	Weight (gm)	Result (ppm)
01	K	0.600	0.50615	29635.484	13				#DIV/0!
02	Ca	0.478	0.50615	23609.602	14				#DIV/0!
03				#DIV/0!	15				#DIV/0!
04				#DIV/0!	16				#DIV/0!
05				#DIV/0!	17				#DIV/0!
06				#DIV/0!	18				#DIV/0!
07				#DIV/0!	19				#DIV/0!
08				#DIV/0!	20				#DIV/0!
09				#DIV/0!	21				#DIV/0!
10				#DIV/0!	22				#DIV/0!
11				#DIV/0!	23				#DIV/0!
12				#DIV/0!	24				#DIV/0!

PROTOTYPE CALCULATION

Result in(ppm) =	Sample Concentration (ppm)	V1 (in mL)	V2 (in mL)	V3 (in mL)	V4 (in mL)	V5 (in mL)	V6 (in mL)	V7 (in mL)
		Sample weight (in gm)						

Prepared By:

[Signature]

Reviewed By:

[Signature]

Date:

Date:



Auriga Research

ELEMENTAL IMPURITIES - EXCEL SHEET CALCULATION FOR BATCH ANALYSIS (ICP-OES)

Sheet No.: SS-10/00

Product Name

MORINGA + POWDER

Report Number

BG202601290096

Date of Analysis

19-02-2026

Test preparation Details

V1 (mL)	V2 (mL)	V3 (mL)	V4 (mL)	V5 (mL)	V6 (mL)	V7 (mL)
25	0.01	10	1	1	1	1

SI No	Name of the elements	Obtained sample concentration (in ppm)	Weight (gm)	Result (ppm)	SI No	Name of the elements	Obtained sample concentration (in ppm)	Weight (gm)	Result (ppm)
01	Fe	0.028	0.50615	1382.989	13				#DIV/0!
02	Mg	0.678	0.50615	33488.096	14				#DIV/0!
03	P	0.820	0.50615	40501.828	15				#DIV/0!
04				#DIV/0!	16				#DIV/0!
05				#DIV/0!	17				#DIV/0!
06				#DIV/0!	18				#DIV/0!
07				#DIV/0!	19				#DIV/0!
08				#DIV/0!	20				#DIV/0!
09				#DIV/0!	21				#DIV/0!
10				#DIV/0!	22				#DIV/0!
11				#DIV/0!	23				#DIV/0!
12				#DIV/0!	24				#DIV/0!

PROTOTYPE CALCULATION

Result in(ppm) =	Sample Concentration (ppm)	V1 (in mL)	V3 (in mL)	V5 (in mL)	V7 (in mL)
		Sample weight (in gm)	V2 (in mL)	V4 (in mL)	V6 (in mL)

Prepared By: *Ashwini*

Date:

Reviewed By: *Ashwini*

Date:



Auriga Research

ELEMENTAL IMPURITIES - EXCEL SHEET CALCULATION FOR BATCH ANALYSIS (ICP-OES)

Sheet No.: SS-10/00

Product Name

MORINGA + POWDER

Report Number

BG202601290096

Date of Analysis

19-02-2026

Test preparation Details

V1 (mL)	V2 (mL)	V3 (mL)	V4 (mL)	V5 (mL)	V6 (mL)	V7 (mL)
25	1	1	1	1	1	1

SI No	Name of the elements	Obtained sample concentration (in ppm)	Weight (gm)	Result (ppm)	SI No	Name of the elements	Obtained sample concentration (in ppm)	Weight (gm)	Result (ppm)
01	Cu	0.049	0.50615	2.420	13				#DIV/0!
02	Zn	0.698	0.50615	34.476	14				#DIV/0!
03	Pb	0.017	0.50615	0.840	15				#DIV/0!
04	As	0.001	0.50615	0.049	16				#DIV/0!
05	Cd	0.000	0.50615	0.000	17				#DIV/0!
06	Hg	0.029	0.50615	1.432	18				#DIV/0!
07				#DIV/0!	19				#DIV/0!
08				#DIV/0!	20				#DIV/0!
09				#DIV/0!	21				#DIV/0!
10				#DIV/0!	22				#DIV/0!
11				#DIV/0!	23				#DIV/0!
12				#DIV/0!	24				#DIV/0!

PROTOTYPE CALCULATION

Result in(ppm) =	Sample Concentration (ppm)	V1 (in mL)	V3 (in mL)	V5 (in mL)	V7 (in mL)
		Sample weight (in gm)	V2 (in mL)	V4 (in mL)	V6 (in mL)

Prepared By: *[Signature]*

Date:

Reviewed By: *[Signature]*

Date:

RAW DATA SHEET

3314

661401

Report No: 202601290096	Booking date: 29/01/2026
Sample name: Moringa + powder	
Analysis Started Date: 30/01/2026	Analysis Completion Date: 04/02/2026

Test Parameters **Vitamins**Test Method: **In-house**Balance ID: **ARL/BLAQ/AWB-025**Due Date of Calibration: **26/02/2026****ARL/BLAQ/AWB-017****25/02/2026**Equipment/Instrument: **ARL/BLAQ/LUMS-MS-003**Due Date of Calibration: **22/06/2026**Equipment/instrument: **NA**Due Date of Calibration: **NA**

Weight of the Sample:

Working mode: mobile, please A Date: 30.01.2026 Time: 9:50:29 Balance S/N: 792585 Instrument ID: ARL/BLAQ/AWB-025 630.33 mg Date: 30.01.2026 Time: 9:51:44 Signature: [Signature] 30/01/2026	Working mode: mobile, please B Date: 30.01.2026 Time: 9:53:16 Balance S/N: 792585 Instrument ID: ARL/BLAQ/AWB-025 630.55 mg Date: 30.01.2026 Time: 9:54:34 Signature: [Signature] 30/01/2026	
Working mode: Thiamine (Vitamin B1) Date: 30.01.2026 Time: 9:56:03 Balance S/N: 792585 Instrument ID: ARL/BLAQ/AWB-025 10.66 mg 0.01 mg Date: 30.01.2026 Time: 9:57:10 Signature: [Signature] 30/01/2026	Working mode: Folic acid (Vitamin B9) Date: 30.01.2026 Time: 9:58:44 Balance S/N: 792585 Instrument ID: ARL/BLAQ/AWB-025 10.50 mg 0.00 mg Date: 30.01.2026 Time: 10:00:03 Signature: [Signature] 30/01/2026	Working mode: Niacinamide (Vitamin B3) Date: 30.01.2026 Time: 10:01:08 Balance S/N: 792585 Instrument ID: ARL/BLAQ/AWB-025 10.55 mg 0.06 mg Date: 30.01.2026 Time: 10:02:15 Signature: [Signature] 30/01/2026

[Signature] **30/01/2026**
 Performed by (Sign & Date)

[Signature] **30/01/2026**
 Checked By (Sign & Date)

Calculation:

WEIGHING RESULTS	
Jan 30 2026 12:46	
BALANCE	Riboflavin (vitamin B2)
Type	XPR26DR
Balance ID	ARL/BLEQ/AWB-017
Term. SN	C148066990
Bridge Ser.	C148066990
WEIGHING ITEM (1)	
Jan 30 2026 12:46	
2.044 mg	
WEIGHING ITEM (2)	
Jan 30 2026 12:46	
0.000 mg	

SIGNATURE
 30/01/2026

Diluent : Water

mobile phase A :- 20Mm Ammonium formate + 0.1% formic acid in water.

mobile phase B :- 20Mm Ammonium formate + 0.1% formic acid in methanol.

$$\text{Thiamine.HCl} = \frac{10.65 \times (337.3 - 36.4589) \times 97.69 \times 1000}{10 \times 100 \times 337.3} = 927.94 \text{ ppm}$$

$$\text{Folic acid} = \frac{10.50 \times 92.60}{10} \times \frac{100}{100} \times 1000 = 972.3 \text{ ppm}$$

$$\text{Nicotinamide} = \frac{10.49 \times 99.81}{10} \times \frac{100}{100} \times 1000 = 1047.00 \text{ ppm}$$

$$\text{Riboflavin} = \frac{2.044}{100} \times \frac{99.61}{100} \times 1000 = 20.36 \text{ ppm}$$

* For preparation of calibration curve linearity concentration are 2ppb, 5ppb, 10ppb, 50ppb, 100ppb, 500ppb, 1000ppb & 10000ppb using water as diluent.

Result : NA

 30/01/2026
 Performed by (Sign & Date)

 30/01/2026
 Checked By (Sign & Date)
 Page 2 of 2

RAW DATA SHEET

3314

661503

Report No: 202501290096	Booking date: 29/01/2026
Sample name: Moringa + powder	
Analysis Started Date: 31/01/2026	Analysis Completion Date: 04/02/2026

Test Parameters **vitamins**Test Method: **In-house**Balance ID: **ARL/BLAQ/AWB-025**Due Date of Calibration: **26/02/2026**Equipment/Instrument: **ARL/BLAQ/2CMS-MS-003**Due Date of Calibration: **22/06/2026**Equipment/instrument: **ARL/BLAQ/CF-004**Due Date of Calibration: **04/08/2026**

Weight of the Sample:

Working mode	Weighing	Working mode	Weighing	Working mode	Weighing
mobile phase A	31.01.2026 Date 15:26:08 Time 792585 Balance S/N Instrument ID: ARL/BLAQ/AWB-025	mobile phase B	31.01.2026 Date 15:28:31 Time 792585 Balance S/N Instrument ID: ARL/BLAQ/AWB-025	Ammonium sample	31.01.2026 Date 15:30:53 Time 792585 Balance S/N Instrument ID: ARL/BLAQ/AWB-025
630.33 mg	31.01.2026 Date 15:27:25 Time	630.43 mg	31.01.2026 Date 15:29:50 Time	100.49 mg 0.05 mg	31.01.2026 Date 15:32:10 Time
<i>[Signature]</i> 31/01/2026	<i>[Signature]</i> 31/01/2026	<i>[Signature]</i> 31/01/2026	<i>[Signature]</i> 31/01/2026	<i>[Signature]</i> 31/01/2026	<i>[Signature]</i> 31/01/2026

Working mode	Weighing
spike sample	31.01.2026 Date 15:33:28 Time 792585 Balance S/N Instrument ID: ARL/BLAQ/AWB-025
100.26 mg 0.00 mg	31.01.2026 Date 15:34:39 Time
<i>[Signature]</i> 31/01/2026	<i>[Signature]</i> 31/01/2026

* mobile phase A! - 20 mm Ammonium formate + 0.1% formic acid in water.

* mobile phase B! - 20 mm Ammonium formate + 0.1% formic acid in methanol.

* For preparation of standard stock solution refer SI NO: 661401

* Sample preparation (vitamin B1 & B2)

Weighed 100.44 mg of sample into 100ml volumetric flask, & diluted upto the mark with water, vortexed for 2mins and sonicated for 10mins, centrifuged the sample solution at 5000 rpm for 5mins, filtered the supernatant solution using 0.45 um nylon filter into LC vials.

sample preparation (vitamin B3) : - pipetted out 0.1ml from above sample solution and diluted upto 1.0ml with water.

[Signature] 31/01/2026
Performed by (Sign & Date)

[Signature] 31/01/2026
Checked By (Sign & Date)

Calculation:

Spike sample solution : - Weighed 100.26 mg of sample into 10ml volumetric flask, added 0.1 ml from 2 ppm standard stock solution further preparation mentioned above sample solution.

Vitamin B1 - 6.575 ppm

Result : Vitamin B2 - 6.586 ppm

Vitamin B3 - 20.426 ppm

8/04/02/2026

Performed by (Sign & Date)

8/04/02/2026

Checked By (Sign & Date)

RAW DATA SHEET

Report No. BU 2 0 2 6 0 1 2 9 0 0 9 6	Booking date: 19/01/2026
Sample name: Moringa + powder	
Analysis Started Date: 02/02/2026	Analysis Completion Date: 04/02/2026

Test Parameters **Vitamin B9**Test Method: **In-house**Balance ID: **ARL/BL/EA/AMB-025**Due Date of Calibration: **26/02/2026**Equipment/Instrument: **ARL/BL/EA/LCMS-MS-003**Due Date of Calibration: **22/06/2026**Equipment/Instrument: **ARL/BL/EA/CF-004**Due Date of Calibration: **04/02/2026**

Weight of the Sample:

Working mode	Weighing	Working mode	Weighing	Working mode	Weighing
mobile phase A	02.02.2026	mobile phase B	02.02.2026	Ammonium sample	02.02.2026
Date	14:09:02	Date	14:11:22	Date	14:15:51
Time	792585	Time	792585	Time	792585
Balance S/N		Balance S/N		Balance S/N	
Instrument ID: ARL/BL/EA/AMB-025		Instrument ID: ARL/BL/EA/AMB-025		Instrument ID: ARL/BL/EA/AMB-025	
630.43 mg		630.63 mg		100.19 mg	
02.02.2026		02.02.2026		0.00 mg	
14:10:17		14:12:43		02.02.2026	
14:17:04					
Signature	Signature	Signature	Signature	Signature	Signature
mobile phase A	02.02.2026	mobile phase B	02.02.2026	Ammonium sample	02.02.2026
Date	14:18:19	Date	14:18:19	Date	14:18:19
Time	792585	Time	792585	Time	792585
Balance S/N		Balance S/N		Balance S/N	
Instrument ID: ARL/BL/EA/AMB-025		Instrument ID: ARL/BL/EA/AMB-025		Instrument ID: ARL/BL/EA/AMB-025	
100.29 mg		100.27 mg			
0.02 mg					
02.02.2026		02.02.2026			
14:19:27					
Signature	Signature	Signature	Signature	Signature	Signature

mobile phase A! - 20 mM Ammonium formate + 0.1% formic acid in water.
 mobile phase B! - 20 mM Ammonium formate + 0.1% formic acid in methanol, diluent! - 30 mM Ammonium acetate in water.
 For preparation of standard stock solution refer SI.No. 60140
 sample preparation! - weighed 100.19mg of sample into 100ml volumetric flask, diluted upto the mark with 30ml diluent, vortexed for 5mins, sonicated for 30mins in cold condition, and, centrifuged the sample solution at 5000rpm at 4°C for 10mins, filtered the supernatant solution using 0.45um nylon filter into 2L vial.
 spiked sample solution! - weighed 100.27mg of sample into 100ml volumetric flask, added 0.1ml from 2ppm standard stock solution, further preparation mentioned above sample solution.

Performed by (Sign & Date)

Checked By (Sign & Date)

Calculation:

$$\text{Vitamin B9 content} = \frac{46098.086}{8843012.000} \times \frac{10.50}{10} \times \frac{92.60}{100} \times \frac{1.03}{100} \times \frac{1.0}{100} \times \frac{10}{0.10019} \times \frac{10}{1} \times 10^3$$
$$= 0.521 \text{ ppm}$$

Result : Vitamin B9 - 0.521 ppm

04/02/2026
Performed by (Sign & Date)

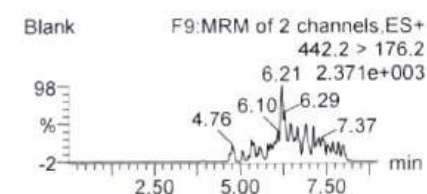
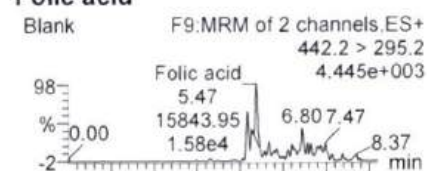
04/02/2026
Checked By (Sign & Date)
Page 2 of 2

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Method: E:\Arbleqlcms-003\2026\Feb\Batch analysis\VITAMINS.PRO\MethDB\VITAMINS.mdb 02 Feb 2026 09:13:55
Calibration: 03 Feb 2026 10:16:19

Name: 02022026_VITAMINS_BA_10, Date: 02-Feb-2026, Time: 18:52:25, ID: Blank, Description:

Folic acid



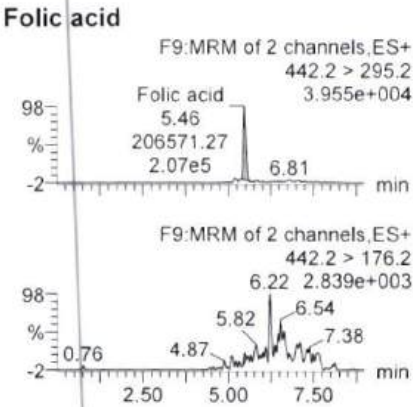
#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2			

Analyzed By: *S*
04/02/2026

Reviewed By: *Q*
04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_11, Date: 02-Feb-2026, Time: 19:02:32, ID: Standard_2 ppb, Description:



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.46	206571.266	1.9

Analyzed By: *[Signature]* 04/02/2026

Reviewed By: *[Signature]* 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld

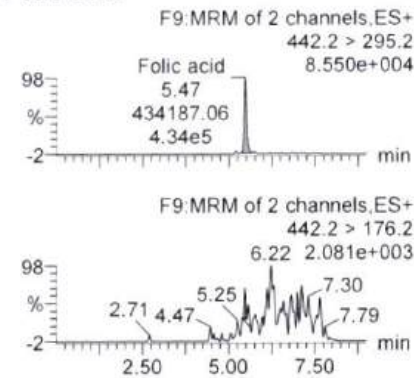
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time

Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time

By: AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_12, Date: 02-Feb-2026, Time: 19:12:39, ID: Standard_5 ppb, Description:

Folic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.47	434187.063	4.9

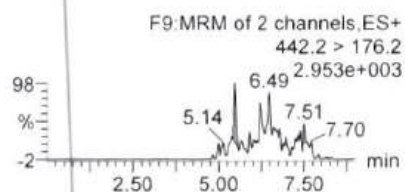
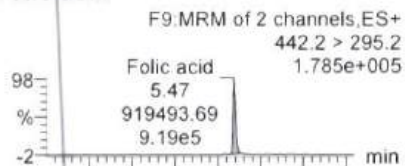
Analyzed By: 04/02/2026

Reviewed By: 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_13, Date: 02-Feb-2026, Time: 19:22:46, ID: Standard_10 ppb, Description:

Folic acid



# Name	Sample Text	Trace	RT	Area	Conc.
7 Folic acid		442.2 > 295.2	5.47	919493.688	11.2

Analyzed By:

Reviewed By:

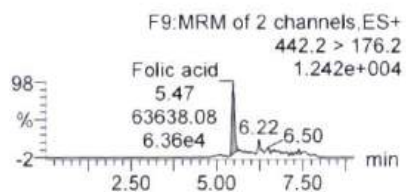
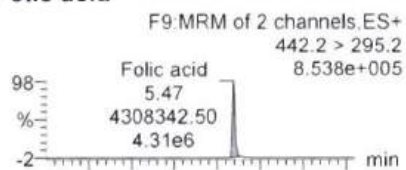
Shubha N
02/02/2026

Shubha N
04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
 Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
 Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
 By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_14, Date: 02-Feb-2026, Time: 19:32:53, ID: Standard_50 ppb, Description:

Folic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.47	4308342.500	55.4

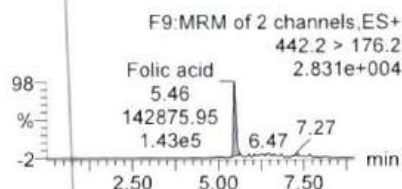
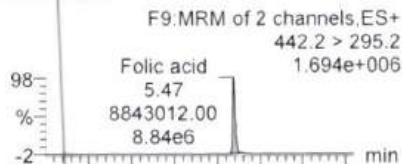
Analyzed By: *04/02/2026*

Reviewed By: *04/02/2026*

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
 Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
 Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
 By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_15, Date: 02-Feb-2026, Time: 19:43:00, ID: Standard_100 ppb, Description:

Folic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.47	8843012.000	114.4

Analyzed By:

Reviewed By:

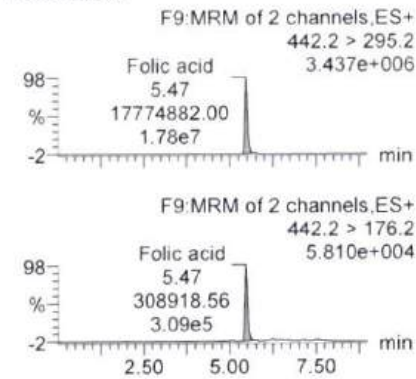
04/02/2026

04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_16, Date: 02-Feb-2026, Time: 19:53:07, ID: Standard_200 ppb, Description:

Folic acid



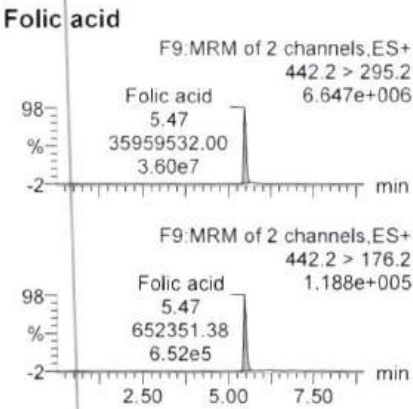
#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.47	17774882.000	230.8

Analyzed By: 8/04/02/2026

Reviewed By: 8/04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_17, Date: 02-Feb-2026, Time: 20:03:14, ID: Standard_500 ppb, Description:



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.47	35959532.000	467.7

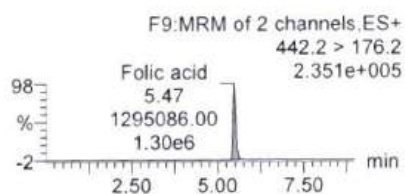
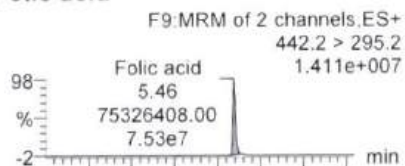
Analyzed By: 04/02/2026

Reviewed By: 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
 Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
 Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
 By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_18, Date: 02-Feb-2026, Time: 20:13:21, ID: Standard_1000 ppb, Description:

Folic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.46	75326408.000	980.6

Analyzed By: *S*
04/02/2026

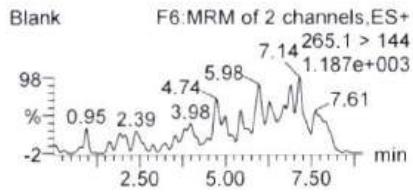
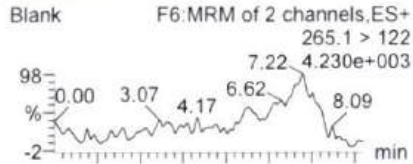
Reviewed By: *Shubha N*

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

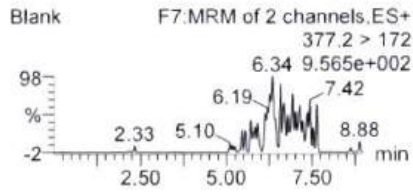
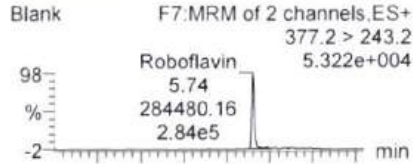
Method: E:\ARBLEQLCMS-003\2026\JAN\BATCH ANALYSIS\VITAMINS.PRO\MethDB\VITAMINS.mdb 02 Feb 2026 09:13:55
Calibration: 02 Feb 2026 09:52:52

Name: 31012026_VITAMINS_BA_07, Date: 31-Jan-2026, Time: 18:10:01, ID: Blank, Description:

Thiamine



Roboflavin



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122			
2	Roboflavin		377.2 > 243.2			

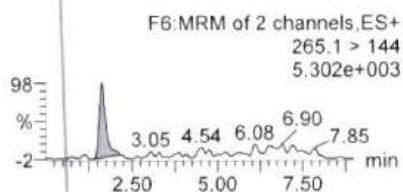
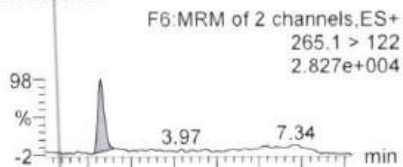
Analyzed By: *02/02/2026*

Reviewed By: *04/02/2026*

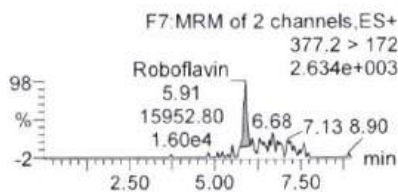
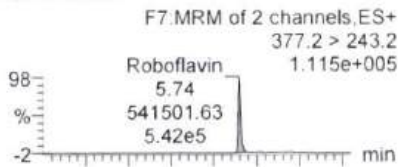
Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_08, Date: 31-Jan-2026, Time: 18:20:08, ID: Standard_2 ppb, Description:

Thiamine



Roboflavin



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.61	361726.688	2.3
2	Roboflavin		377.2 > 243.2	5.74	541501.625	2.8

Analyzed By:

Reviewed By:

Shubha N
04/02/2026

Shubha N
04/02/2026

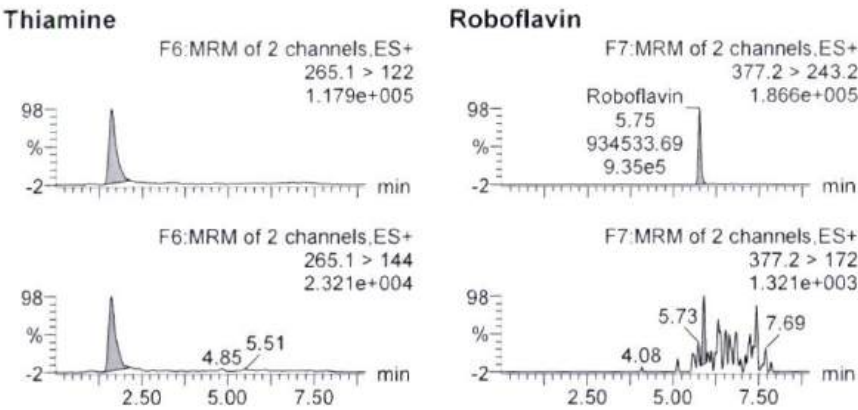
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Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time

Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time

By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_09, Date: 31-Jan-2026, Time: 18:30:11, ID: Standard_5 ppb, Description:



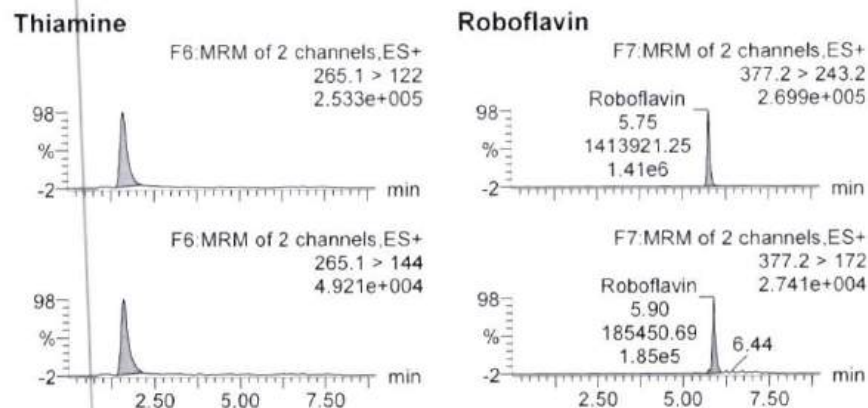
#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.61	1687002.750	2.9
2	Roboflavin		377.2 > 243.2	5.75	934533.688	6.0

Analyzed By: *[Signature]* 04/02/2026

Reviewed By: *[Signature]* 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_10, Date: 31-Jan-2026, Time: 18:40:17, ID: Standard_10 ppb, Description:



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.60	3590118.000	3.9
2	Robo flavin		377.2 > 243.2	5.75	1413921.250	10.1

Analyzed By:

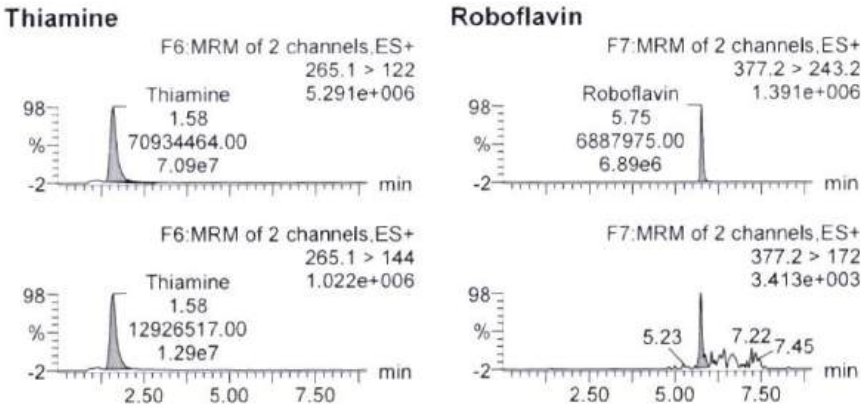
Reviewed By:

Shubha N

Shubha N

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_11, Date: 31-Jan-2026, Time: 18:50:22, ID: Standard_50 ppb, Description:



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.58	70934464.000	37.2
2	Roboflavin		377.2 > 243.2	5.75	6887975.000	55.9

Analyzed By: 04/02/2026

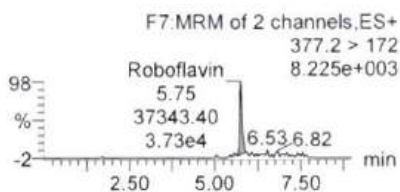
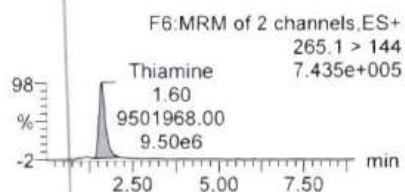
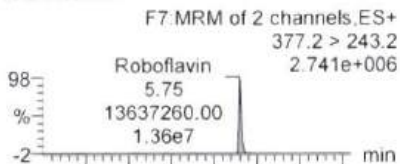
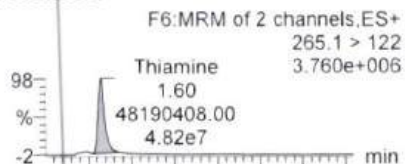
Reviewed By: 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_12, Date: 31-Jan-2026, Time: 19:00:28, ID: Standard_100 ppb, Description:

Thiamine

Roboflavin



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.60	48190408.000	26.0
2	Roboflavin		377.2 > 243.2	5.75	13637260.000	112.4

Analyzed By:

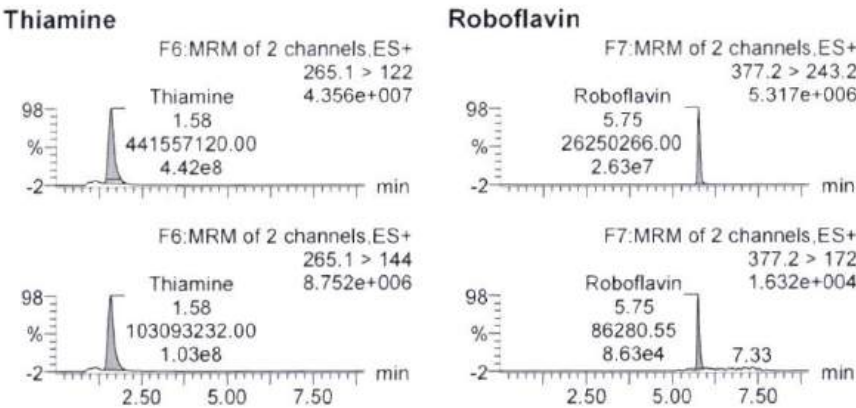
Reviewed By:

31/01/2026

31/01/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_13, Date: 31-Jan-2026, Time: 19:10:35, ID: Standard_200 ppb, Description:



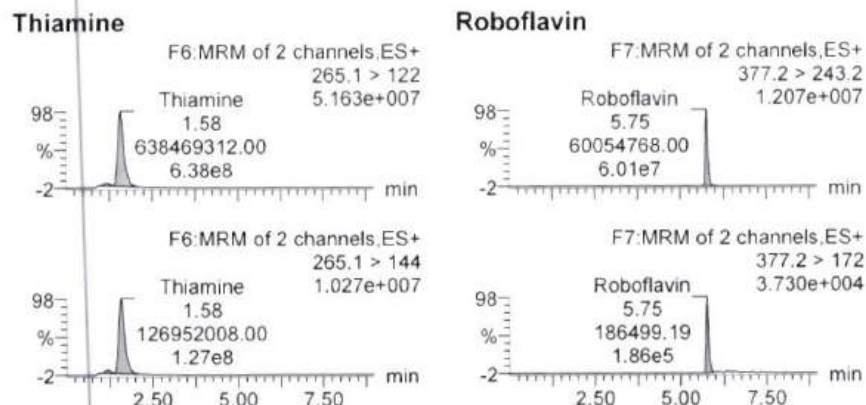
#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.58	441557120.000	220.7
2	Roboflavin		377.2 > 243.2	5.75	26250266.000	218.0

Analyzed By: *Shubha N*

Reviewed By: *Shubha N*

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_14, Date: 31-Jan-2026, Time: 19:20:42, ID: Standard_500 ppb, Description:



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.58	638469312.000	318.2
2	Roboflavin		377.2 > 243.2	5.75	60054768.000	501.0

Analyzed By:

04/02/2026

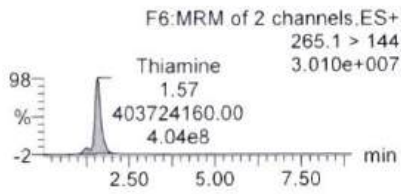
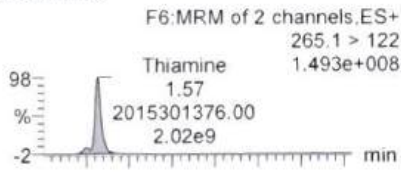
Reviewed By:

04/02/2026

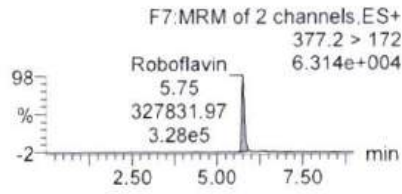
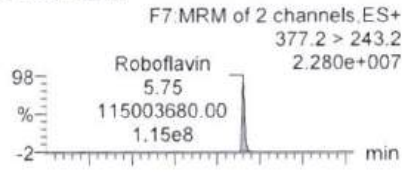
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Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_15, Date: 31-Jan-2026, Time: 19:30:44, ID: Standard_1000 ppb, Description:

Thiamine



Roboflavin



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.57	2015301376.000	1000.0
2	Roboflavin		377.2 > 243.2	5.75	115003680.000	960.9

Analyzed By: *Q 02/2026*

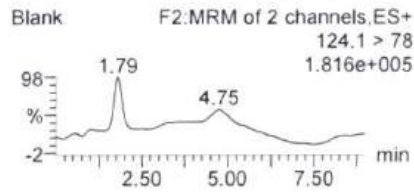
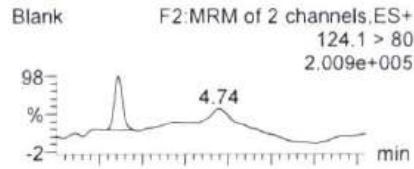
Reviewed By: *Q 24/02/2026*

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Method: E:\ARBLEQLCMS-003\2026\JAN\BATCH ANALYSIS\VITAMINS.PRO\MethDB\VITAMINS.mdb 02 Feb 2026 09:13:55
Calibration: 02 Feb 2026 09:52:52

Name: 31012026_VITAMINS_BA_07, Date: 31-Jan-2026, Time: 18:10:01, ID: Blank, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80			

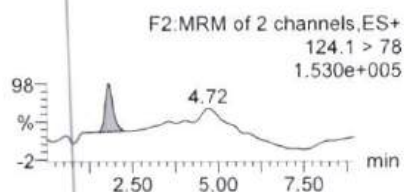
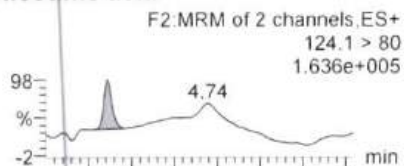
Analyzed By: 04/02/2026

Reviewed By: 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_08, Date: 31-Jan-2026, Time: 18:20:08, ID: Standard_2 ppb, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.81	1787704.500	1.5

Analyzed By:

8
02/02/2026

Reviewed By:

47
24/01/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

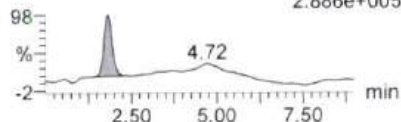
Name: 31012026_VITAMINS_BA_09, Date: 31-Jan-2026, Time: 18:30:11, ID: Standard_5 ppb, Description:

Nicotinic acid

F2:MRM of 2 channels,ES+
124.1 > 80
3.235e+005



F2:MRM of 2 channels,ES+
124.1 > 78
2.886e+005



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.81	4297399.000	5.8

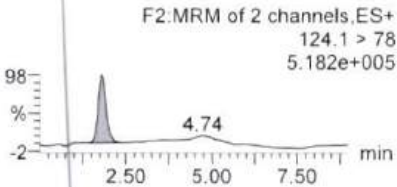
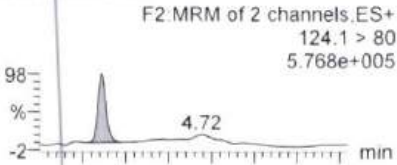
Analyzed By: *S 04/02/2026*

Reviewed By: *9-24/01/2026*

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_10, Date: 31-Jan-2026, Time: 18:40:17, ID: Standard_10 ppb, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.81	8669041.000	13.4

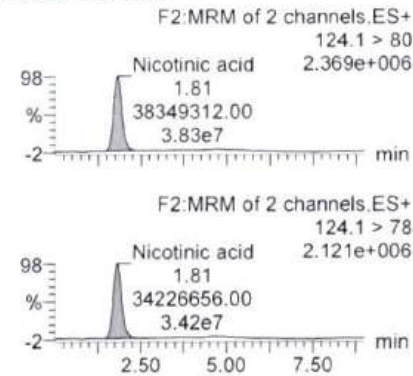
Analyzed By: *Shubha N*
04/02/2026

Reviewed By: *Shubha N*
04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_11, Date: 31-Jan-2026, Time: 18:50:22, ID: Standard_50 ppb, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.81	38349312.000	64.5

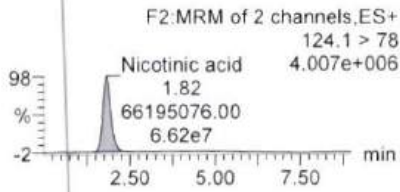
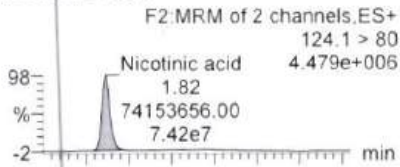
Analyzed By: 04/02/2026

Reviewed By: 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_12, Date: 31-Jan-2026, Time: 19:00:28, ID: Standard_100 ppb, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.82	74153656.000	126.3

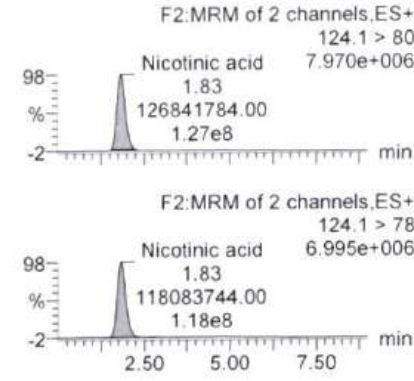
Analyzed By: *04/02/2026*

Reviewed By: *04/02/2026*

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_13, Date: 31-Jan-2026, Time: 19:10:35, ID: Standard_200 ppb, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.83	126841784.000	217.1

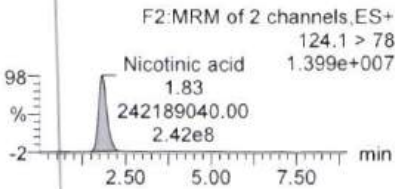
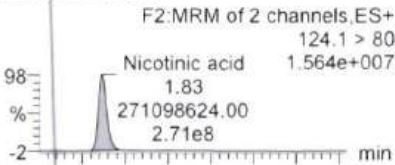
Analyzed By: 8/24/02/2026

Reviewed By: 9/24/04/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_14, Date: 31-Jan-2026, Time: 19:20:42, ID: Standard_500 ppb, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.83	271098624.000	465.9

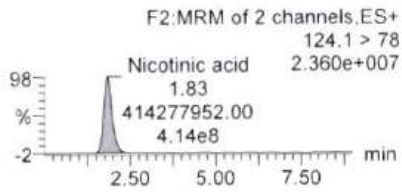
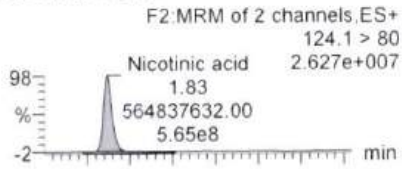
Analyzed By: 04/02/2026

Reviewed By: 04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_15, Date: 31-Jan-2026, Time: 19:30:44, ID: Standard_1000 ppb, Description:

Nicotinic acid



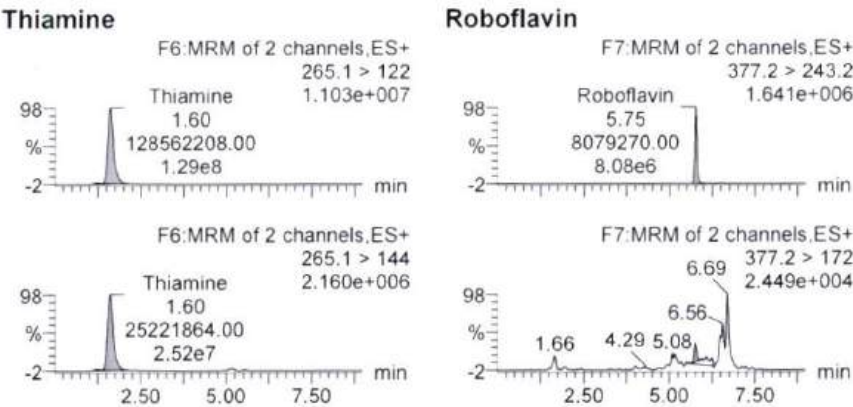
#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.83	564837632.000	972.4

Analyzed By: *S*
04/02/2026

Reviewed By: *S*
04/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time
Printed: At Wednesday, February 04, 2026 16:42:48 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_18, Date: 31-Jan-2026, Time: 20:01:02, ID: BG202601290096, Description:



#	Name	Sample Text	Trace	RT	Area	Conc.
1	Thiamine		265.1 > 122	1.60	128562208.000	6575.0
2	Roboflavin		377.2 > 243.2	5.75	8079270.000	6585.7

24/02/2026

Analyzed By:

Reviewed By: 24/02/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\02022026_VITAMINS_BA.qld

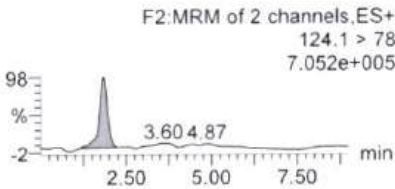
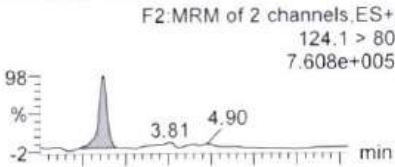
Last Altered: Monday, February 02, 2026 09:52:52 India Standard Time

Printed: At Wednesday, February 04, 2026 16:44:18 India Standard Time

By AURIGABLRDC\shubha.n (Shubha N)

Name: 31012026_VITAMINS_BA_27, Date: 31-Jan-2026, Time: 21:31:58, ID: BG202601290096, Description:

Nicotinic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
4	Nicotinic acid		124.1 > 80	1.84	12799657.000	20485.9

Analyzed By:

9/02/2026

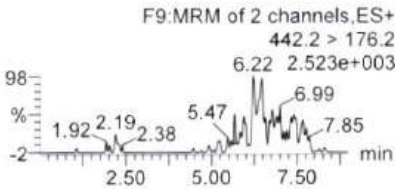
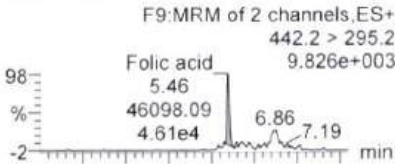
Reviewed By:

9/04/2026

Dataset: E:\ARBLEQLCMS-003\2026\FEB\BATCH ANALYSIS\VITAMINS.PRO\PeakDB\03022026_VITAMINS_BA.qld
Last Altered: Tuesday, February 03, 2026 10:17:02 India Standard Time
Printed: At Wednesday, February 04, 2026 11:13:24 India Standard Time
By AURIGABLRDC\shubha.n (Shubha N)

Name: 02022026_VITAMINS_BA_23, Date: 02-Feb-2026, Time: 21:03:56, ID: BG202601290096, Description:

Folic acid



#	Name	Sample Text	Trace	RT	Area	Conc.
7	Folic acid		442.2 > 295.2	5.46	46098.086	

Analyzed By: *[Signature]*
24/02/2026

Reviewed By: *[Signature]*
24/02/2026