Auriga Research

# Auriga Research Private Limited

Govt. Approved Test House

No.136, 6th Cross, 2nd Stage,Yeshwanthpur Industrial Suburb, Bangalore - 560 022.

Ph : +91-80-28396878

Email : admin@aurigaresearch.com, Website : www.aurigaresearch.com

TC-5496

ULR - TC549622000007121F

## Certificate of Analysis

Information by Customer

**Report No.** : BG202207140106

**Sample** : AGNIHASTRA ORGANIC REPELLANT
**Mfg. By** : NS
**Supplied By** : NS
**Mfg lic. No.** : NS
**Ref. No.** : NS
**Submitted By** : LTA TRUST
**Address** : No 51/7/1 Chitrakoot rathna avenue richmond road, BANGALORE, KARNATAKA- 560025 INDIA

| Batch No | Mfg. Date | Expiry Date | Batch Size | Sample Quantity |
|---|---|---|---|---|
| NA | NS | NS | NS | 2 Ltr |

**Sample ID** : BG202207140106 **Received On** : 14/07/2022

**Date of start of analysis** : 27/07/2022 **Date of completion of analysis** : 03/08/2022

Sample not drawn by laboratory.

| <Parameters> | <Results> | <Unit> | <Req.> | <Claim> | <LLOQ> | <Lower limit> | <Upper limit> | <Method> |
|---|---|---|---|---|---|---|---|---|
| Staphylococcus aureus . | : Absent | - | - | | - | - | - | IS:5887(P-2) |
| Salmonella | : Absent | - | - | | - | - | - | IS 5887 (P-3) |

*End of Report*

Report : PARTY ASKED FOR THE ABOVE TESTS ONLY

To verify Report Scan this Code.

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**(1) Total liability of this laboratory is limited to the invoice amount.**
**(2) The results listed refer only to the tested sample and applicable parameter. Endorsement of products is neither inferred nor implied.**
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**(4) When the report is without NABL symbol & ULR, it implies that these products & tests are not covered under NABL accredited scope.**

03/08/22



**Authorized Signatory**

G ARCHANA
Technical Manager
(Microbiology)

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| Batch No | Mfg. Date | Expiry Date | Batch Size | Sample Quantity |
|---|---|---|---|---|
| NA | NS | NS | NS | 2 Ltr |

**Sample ID** : BG202207140106 **Received On** : 14/07/2022

**Date of start of analysis** : 27/07/2022 **Date of completion of analysis** : 03/08/2022

Sample not drawn by laboratory.

Description :- Dark brown coloured liquid

| <Parameters> | <Results> | <Unit> | <Req.> | <Claim> | <LLOQ> | <Lower limit> | <Upper limit> | <Method> |
|---|---|---|---|---|---|---|---|---|
| By ICP-OES: | | | | | | | | |
| Magnesium | : 841.96ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Calcium.(as Ca) | : 624.76ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Phosphorus | : 7.82ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Iron | : 6.59ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Potassium | : 9307.89ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| By ICP-OES: | | | | | | | | |
| Sodium | : 2130.52ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Copper | : 8.69ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Zinc | : 2.83ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| pH | : 7.222 | - | - | | - | - | - | FC 1985 |
| Moisture | : 95.12 % | - | - | | - | - | - | FC 1985 |
| Electrical Conductivity | : 10.50 millimhos | - | - | | - | - | - | FC 1985 |
| Nitrogen | : 8.74 % | - | - | | - | - | - | FC 1985 |
| By ICP-OES: | | | | | | | | |
| Sulphur | : 256.74ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Organic Carbon | : NA | - | - | | - | - | - | ARLBL/CHE/STP-024 |
| Manganese | : <0.02ppm | - | - | | - | - | - | ARLBL/CHE/STP-024 |

28/10/2022
Kalappa



**Authorized Signatory**

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Person-in-Charge

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**Sample** : AGNIHASTRA ORGANIC REPELLANT

**Mfg. By** : NS

**Supplied By** : NS

**Mfg lic. No.** : NS

**Ref. No.** : NS

**Submitted By** : LTA TRUST

**Address** : No 51/7/1 Chitrakoot rathna avenue richmond road, BANGALORE, KARNATAKA- 560025 INDIA

| Batch No | Mfg. Date | Expiry Date | Batch Size | Sample Quantity |
|---|---|---|---|---|
| NA | NS | NS | NS | 2 Ltr |

**Sample ID :** BG202207140106 **Received On :** 14/07/2022

**Date of start of analysis :** 27/07/2022 **Date of completion of analysis :** 03/08/2022

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Total Fungal Count** | : Less Than 10 | - | - | - | - | - | IS:5403 |
| **By Micro:** | | | | | | | | |
| **Total bacterial count** | : 45000 | - | - | - | - | - | IS 5402:2012 |
| **Pseudomonas aeruginosa/g.** | : Absent | - | - | - | - | - | IS:13428 ANNEX-D |
| **Listeria monocytogens** | : Absent | - | - | - | - | - | IS 14988(P-1):2020 |
| **Lactobacillus Count** | : 4120 | - | - | - | - | - | ARLBL/MB/STP-025 |

*End of Report*

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03/08/2022

Poonacha



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Person-in-Charge

Book No.: SI No.:

1832 364194

# RAW DATA SHEET

| | |
|---|---|
| Report No.: BG 202207140126 | Booking date: 14/07/2022 |
| Sample name: Agnihastra organic Repellant | |
| Analysis Started Date: 02/08/2022 | Analysis Completion Date: 02/08/2022 |

Test Parameters: Electrical conductivity

Test Method: FC 1985

Balance ID: ARL/BLEQ/ATWB-005 Due Date of Calibration: 04/08/2022

Equipment/Instrument: ARL/BLEQ/CDM-003 Due Date of Calibration: Daily

Equipment/instrument: -NA- Due Date of Calibration: -NA-

**Weight of the Sample:**

SHIMADZU CORP.
TYPE ATX224
SN D307021010
ID 0005

20.0048g

-SIGNATURE-

02/08/22

For procedure Ref — BG202207140126

Direct instrument reading = 10.50 ms/cm

⇒ 10.50 millimhos

02/08/22
Performed by (Sign & Date)

03/08/2022
Checked By (Sign & Date)

Calculation:

N A

02/08/22

**Result :** 10-50 millimhos

02/08/22

**Performed by (Sign & Date)**

03/08/2022

**Checked By (Sign & Date)**

Book No.: 1832 Sl No.: 364195

# RAW DATA SHEET

| | |
|---|---|
| Report No: BG 20220714010 6 | Booking date: 14/07/22 |
| Sample name: Agnihastra organic Repellent | |
| Analysis Started Date: 02/08/2022 | Analysis Completion Date: 02/08/2022 |

Test Parameters moisture

Test Method: FC 1985

Balance ID: ARL/BLEQ/AWB-005 Due Date of Calibration: 04/08/2022

Equipment/Instrument: ARL/BLEQ/VO-001 Due Date of Calibration: 25/07/2023

Equipment/instrument: - NA - Due Date of Calibration: - NA -

**Weight of the Sample:**

| | | |
|---|---|---|
| SHIMADZU CORP.<br>TYPE ATX224<br>SN D307021010<br>ID 0005 | SHIMADZU CORP.<br>TYPE ATX224<br>SN D307021010<br>ID 0005 | SHIMADZU CORP.<br>TYPE ATX224<br>SN D307021010<br>ID 0005 |
| $W_1$ | $W$ | $W_3$ |
| 45.6552g | 5.0663g | 45.9023g |
| -SIGNATURE- 02/08/22 | -SIGNATURE- | -SIGNATURE- |

$W_2 = W_1 + W$

$= 50.7215$

For procedure Ref BG2022071400102

$$\text{moisture} = \frac{W_2 - W_3}{W} \times 100$$

$$= \frac{50.7215 - 45.9023}{5.0663} \times 100$$

$= 95.12\ \%$

02/08/2022

Performed by (Sign & Date)

03/08/2022

Checked By (Sign & Date)

Calculation:

2 x 02/08/2022

**Result :** 95.12.1

02/08/2022

**Performed by (Sign & Date)**

03/08/2022

**Checked By (Sign & Date)**

Book No.: 1832 Sl No.: 364196

# RAW DATA SHEET

| | |
|---|---|
| Report No.: BG 7022071401 6 | Booking date: 14/07/2022 |
| Sample name: Agnihastra organic repellent | |
| Analysis Started Date: 02/08/2022 | Analysis Completion Date: 02/08/2022 |

Test Parameters: pH

Test Method: FC 1985

Balance ID: ARL/BLEQ/ACOB-005 — Due Date of Calibration: 04/08/2022

Equipment/Instrument: ARL/BLEQ/PH-004 — Due Date of Calibration: Daily

Equipment/instrument: -NA- — Due Date of Calibration: -NA-

**Weight of the Sample:**

SHIMADZU CORP.
TYPE ATX224
SN D307021010
ID 0005

25.5693g

-SIGNATURE-

02/08/22

914 pH/DO/Conductometer
16157 5.914.3021
Printed on 2022-08-02
15:38:37

| | | |
|---|---|---|
| pH | 7.222 | 26.2 °C |
| Calibration date | | 2022-08-02 |
| Calibration time | | 11:34:14 |
| Temperature | | 23.7 °C |
| Slope | | 96.33 % |
| pH(0) | | 6.919 |
| Sensor name | | Unitrode |
| Serial number | | 21284301 |

02/08/22

For procedure Ref - BG7022071401G2

Direct instrument reading : 7.222

02/08/22
Performed by (Sign & Date)

03/08/22
Checked By (Sign & Date)

Calculation:

02/08/22

**Result :** 7.222

02/08/22

**Performed by (Sign & Date)**

03/09/2022

**Checked By (Sign & Date)**

## RAW DATA SHEET

1832 364197

| | |
|---|---|
| Report No.: BG202207140102 | Booking date: 14/07/22 |
| Sample name: Agnihastra organic Repellant | |
| Analysis Started Date: 03/08/2022 | Analysis Completion Date: 03/08/2022 |

Test Parameters Nitrogen

Test Method: FC 1985

Balance ID: ARL/BLEQ/AWB-005 Due Date of Calibration: 04/08/2022

Equipment/Instrument: ARL/BLEQ/PES-001 Due Date of Calibration: 14/10/2022

Equipment/instrument: -NA- Due Date of Calibration: -NA-

**Weight of the Sample:**

SHIMADZU CORP.
TYPE ATX224
SN D307021010
ID 0005

1.1239g

-SIGNATURE-
03/08/22

For procedure Ref - BG202207140102

$$\text{Nitrogen \%} = \frac{1.401\,(V_1N_1 - V_2N_2) - (V_3N_1 - V_4N_2) \times df}{W}$$

$$= \frac{1.401\,(20 \times 0.0992) - (15.2 \times 0.1003) - (20 \times 0.0992) - (20.1 \times 0.1003) \times 500}{1.1239 \times 25}$$

$$= \frac{(0.4594 + 0.0320) \times 500}{1.1239 \times 25}$$

$$= 8.74\%$$

03/08/22
Performed by (Sign & Date)

03/08/22
Checked By (Sign & Date)

Calculation:

N/A 03/08/22

**Result :** 8.74 -1.

03/08/22

**Performed by (Sign & Date)**

03/08/2022

**Checked By (Sign & Date)**

| QUALITY ASSURANCE | | | | |
|---|---|---|---|---|
| Sl. No. | Check points | Observation | | |
| | | Yes | No | NA |
| 1 | Is test parameters & Method of test mentioned in the COA complying with the TRF | ✓ | | |
| 2 | Is the Analyst(s) performed all tests as per specification | ✓ | | |
| 3 | Is the sample name and batch number entered correctly as mentioned in COC | ✓ | | |
| 4 | Weight prints for each test is enclosed and are verified | ✓ | | |
| 5 | Are all calculations verified, found satisfactory | ✓ | | |
| 6 | Are the unit for results are mentioned in the COA, COC & RDS is matching with specification | ✓ | | |
| 7 | Are all pages signed with date in the COC and Raw Data Sheets | ✓ | | |
| 8 | Is any incident, deviation or OOS reporting done during the testing | | ✓ | |
| 9 | Are the respective audit trails checked? | | ✓ | |
| 10 | Is there any reprocessed / aborted analysis in audit trail? | | ✓ | |
| 11 | Are there any duplicate results? | | ✓ | |
| 12 | Are there any alterations of results? | | ✓ | |
| 13 | Are there any deletion of results | | ✓ | |
| 14 | Is all test/s results complying to the release specification | | | ✓ |

**OBSERVATIONS**

| Sl. No. | Observation No. | Details of observation by reviewer | Observed by sign. With date | Corrective Action taken |
|---|---|---|---|---|
| | | | NA @03/08/2022 | |

**Remarks:**

**Conclusion:** The Analytical Report is found satisfactory in all aspects of compliance.

@03/08/2022

**Verified by/ Date:**

Auriga Research Private Limited, Bangalore,
QA ISSUED
14-7-2022



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**APPENDIX I** **ARLBL/CHE/STP-024/FR-01**

ESTIMATION OF METALS BY ICP-OES



| | | | |
|---|---|---|---|
| Sample Name | Agnihastra organic repellant | | |
| Report No. | BG/2022071H0106 | Batch No. | NA |
| Mfg. Date | NS | Exp. Date | NS |
| Test Parameter | Elemental Impurities | Analysis started Date | 27/07/22 |
| Test method | ARLBL/CHE/STP-024 | Analysis Completed Date | 28/07/22 |

Equipment / Instrument details

| Name of the instrument | Instrument ID | Calibration done date | Calibration due date |
|---|---|---|---|
| Analytical weighing Balance | ARL/BLEQ/AWB-014 | 14/07/22 | 14/08/22 |
| Microwave digester | ARL/BLEQ/MWD-002 | 30/12/21 | 31/12/22 |
| ICP-OES | ARL/BLEQ/ICPOES-001 | 25/07/22 | 25/08/22 |

**PROCEDURE:**

**Weights of sample:**

For Linearity Refer BG/2022/140104

```
Working mode                    Weighing
Date                         27.07.2022
Time                         11:52:06
Balance S/N                     684373
Instrument Id: ARL/BLEQ/AWB-014

      0.5122 g
Date
Time                         27.07.2022
                             11:53:40
```

27/07/22 Analyst

29/07/2022



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Sign: Date: 15/07/2022

**Reagent preparation: (Diluent)**
Transferred 3.5 ml of Conc. Nitric acid to 500 ml of volumetric flask / Polypropylene tube.

**Preparation of standards:**

7.5 * Concentration

**Preparation of standard stock solution A:**
Transferred 1000 ppm of 0.5 ml of standard into 50.0 ml of volumetric flask / Polypropylene tube and make up to volume with diluent. (10.0 ppm)

**Preparation of working standard:**

**Standard 1:** Transferred 2 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (2 ppm)

**Standard 2:** 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 3:** 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 4:** Transferred 0.10 ml of standard stock solution A into 10 ml of volumetric flask / polypropylene tube and make up to volume with diluent. (0.10 ppm)

**Standard 5:** 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 6:** Transferred 0.02 ml of standard stock solution A into 10 ml of volumetric flask or polypropylene tube and make up to volume with diluent. (0.02 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)



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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 0.5122 (g) of the homogeneous sample into the Teflon vessel microwave digestion system / hot plate and added 9 ml of Nitric acid and - ml of Hydrochloric acid and then added - ml of $H_2O_2$ , - ml of $HClO_4$ , - ml of HF & - 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:**

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



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**Calculation:**

$Fe = \frac{0.135 \times 25}{0.5122} = 6.59 ppm$

$Cu = \frac{0.142 \times 25}{0.5122} = 8.69 ppm$

$Zn = \frac{0.058 \times 25}{0.5122} = 2.83 ppm$

$Ca = \frac{0.256 \times 25 \times 50}{0.5122 \times 1} = 624.76 ppm$

$Mg = \frac{0.345 \times 25 \times 50}{0.5122} = 841.96 ppm$

$Na = \frac{0.873 \times 25 \times 50}{0.5122 \times 1} = 2130.52 ppm$

$K = \frac{1.907 \times 25 \times 100}{0.5122 \times 1} = 9307.89 ppm$

$S = \frac{0.526 \times 25 \times 10}{0.5122 \times 1} = 256.74 ppm$



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**Reference Standard details:**

| Sl. No. | Reference Standards | Batch No. | Expiry date |
|---|---|---|---|
| 1 | Lead | | |
| 2 | Cadmium | | |
| 3 | Arsenic | | |
| 4 | Mercury | | |
| 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 | 000 6667677 | 30/04/26 |
| 23 | ~~Tin~~ Sulfur | BCFC021 | 01/09/24 |
| 24 | ~~Chromium~~ Manganese | 000 6667677 | 30/04/26 |
| 25 | Calcium | 000 6667677 | 30/04/26 |
| 26 | Potassium | 000 6667677 | 30/04/26 |
| 27 | Magnesium | 000 6667677 | 30/04/26 |
| 28 | Sodium | 000 6667677 | 30/04/26 |
| 29 | Iron | 000 6667677 | 30/04/26 |
| 30 | Zinc | 000 6667677 | 30/04/26 |



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Parameters:

| Sl. No. | Elements | Limit | Result | Status |
|---|---|---|---|---|
| 1 | K | — | 9307.89PPM | Pass/Fail |
| 2 | Cu | — | 8.69 PPM | Pass/Fail |
| 3 | Zn | — | 9.82 PPM | Pass/Fail |
| 4 | Mg | — | 841.96 PPM | Pass/Fail |
| 5 | Ca | — | 624.76 PPM | Pass/Fail |
| 6 | TF of 25003 Fe S | — | 256.74 PPM | Pass/Fail |
| 7 | Fe | — | 6.59 PPM | Pass/Fail |
| 8 | Mn | — | 28.02 PPM | Pass/Fail |
| 9 | Na | — | 2130.52 PPM | Pass/Fail |
| 10 | | | | Pass/Fail |
| 11 | | | | 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 |

Na 28/07/25

**Analysed By:**
**Date:** 28/07/25

**Checked By:** 29/07/2025
**Date:**



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Batch ID:
Sequence No.: 1
Sample ID: Reagent Blank 1
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 14:51:22
Data Type: Reprocessed on 28-07-2022 10:02:31
Signed By (Original): lokesh Kumar KM
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 | B 249.677 | 593.4 | 442.2 | 0.017 | ppm | 0.017 | ppm | 14:51:37 |
| 1 | Ca 422.673 | 422.5 | -55.2 | -0.001 | ppm | -0.001 | ppm | 14:51:46 |
| 1 | Cr 267.716 | 997.3 | 98.3 | 0.001 | ppm | 0.001 | ppm | 14:53:09 |
| 1 | Cu 327.393 | 521.0 | 324.5 | 0.004 | ppm | 0.004 | ppm | 14:51:55 |
| 1 | Fe 238.204 | 142.7 | 7.4 | 0.000 | ppm | 0.000 | ppm | 14:52:03 |
| 1 | K 766.490 | 520.9 | -682.7 | -0.031 | ppm | -0.031 | ppm | 14:52:14 |
| 1 | Mg 285.213 | 291.5 | 143.3 | 0.002 | ppm | 0.002 | ppm | 14:52:23 |
| 1 | Mn 257.610 | 6140.2 | 427.5 | 0.000 | ppm | 0.000 | ppm | 14:53:16 |
| 1 | Mo 202.031 | 424.9 | -1.5 | -0.000 | ppm | -0.000 | ppm | 14:53:24 |
| 1 | Na 589.592 | 809.8 | -24.5 | -0.000 | ppm | -0.000 | ppm | 14:52:34 |
| 1 | Ni 231.604 | 2624.2 | -18.6 | -0.000 | ppm | -0.000 | ppm | 14:53:33 |
| 1 | Se 196.026 | 172.7 | 22.2 | 0.011 | ppm | 0.011 | ppm | 14:53:41 |
| 1 | Sn 189.927 | 10.2 | -10.5 | -0.019 | ppm | -0.019 | ppm | 14:52:46 |
| 1 | Zn 213.857 | 188.4 | 8.9 | 0.000 | ppm | 0.000 | ppm | 14:52:54 |

Mean Data: Reagent Blank 1

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| B 249.677 | 442.2 | 0.017 | ppm | | 0.017 | ppm | | |
| Ca 422.673 | -55.2 | -0.001 | ppm | | -0.001 | ppm | | |
| Cr 267.716 | 98.3 | 0.001 | ppm | | 0.001 | ppm | | |
| Cu 327.393 | 324.5 | 0.004 | ppm | | 0.004 | ppm | | |
| Fe 238.204 | 7.4 | 0.000 | ppm | | 0.000 | ppm | | |
| K 766.490 | -682.7 | -0.031 | ppm | | -0.031 | ppm | | |
| Mg 285.213 | 143.3 | 0.002 | ppm | | 0.002 | ppm | | |
| Mn 257.610 | 427.5 | 0.000 | ppm | | 0.000 | ppm | | |
| Mo 202.031 | -1.5 | -0.000 | ppm | | -0.000 | ppm | | |
| Na 589.592 | -24.5 | -0.000 | ppm | | -0.000 | ppm | | |
| Ni 231.604 | -18.6 | -0.000 | ppm | | -0.000 | ppm | | |
| Se 196.026 | 22.2 | 0.011 | ppm | | 0.011 | ppm | | |
| Sn 189.927 | -10.5 | -0.019 | ppm | | -0.019 | ppm | | |
| Zn 213.857 | 8.9 | 0.000 | ppm | | 0.000 | ppm | | |

Batch ID:
Sequence No.: 2
Sample ID: BG202207140106
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 15:19:16
Data Type: Reprocessed on 28-07-2022 10:02:32
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202207140106

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Ca 422.673 | 689662.3 | 689184.6 | 10.46 | ppm | 10.46 | ppm | 15:19:33 |
| 1 | Cu 327.393 | 11657.2 | 11460.7 | 0.142 | ppm | 0.142 | ppm | 15:19:38 |
| 1 | Fe 238.204 | 7044.9 | 6909.7 | 0.135 | ppm | 0.135 | ppm | 15:19:46 |
| 1 | K 766.490 | 3897410.4 | 3896206.9 | 174.6 | ppm | 174.6 | ppm | 15:19:58 |
| 1 | Mg 285.213 | 980570.6 | 980422.5 | 14.07 | ppm | 14.07 | ppm | 15:20:05 |
| 1 | Mn 257.610 | 28574.9 | 22862.2 | 0.016 | ppm | 0.016 | ppm | 15:20:38 |
| 1 | Na 589.592 | 6265643.1 | 6264808.9 | 40.11 | ppm | 40.11 | ppm | 15:20:13 |
| 1 | Zn 213.857 | 2508.8 | 2329.4 | 0.058 | ppm | 0.058 | ppm | 15:20:22 |

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Mean Data: BG202207140106

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Ca 422.673 | 689184.6 | 10.46 | ppm | | 10.46 | ppm | | |
| Cu 327.393 | 11460.7 | 0.142 | ppm | | 0.142 | ppm | | |
| Fe 238.204 | 6909.7 | 0.135 | ppm | | 0.135 | ppm | | |
| K 766.490 | 3896206.9 | 174.6 | ppm | | 174.6 | ppm | | |
| Mg 285.213 | 980422.5 | 14.07 | ppm | | 14.07 | ppm | | |
| Mn 257.610 | 22862.2 | 0.016 | ppm | | 0.016 | ppm | | |
| Na 589.592 | 6264808.9 | 40.11 | ppm | | 40.11 | ppm | | |
| Zn 213.857 | 2329.4 | 0.058 | ppm | | 0.058 | ppm | | |

Batch ID:
Sequence No.: 3
Sample ID: BG202207140106-50D
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 15:23:51
Data Type: Reprocessed on 28-07-2022 10:02:33
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202207140106-50D

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Ca 422.673 | 17264.0 | 16786.3 | 0.256 | ppm | 0.256 | ppm | 15:24:06 |
| 1 | Mg 285.213 | 24301.2 | 24153.0 | 0.345 | ppm | 0.345 | ppm | 15:24:14 |
| 1 | Na 589.592 | 137226.8 | 136392.5 | 0.873 | ppm | 0.873 | ppm | 15:24:26 |

Mean Data: BG202207140106-50D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Ca 422.673 | 16786.3 | 0.256 | ppm | | 0.256 | ppm | | |
| Mg 285.213 | 24153.0 | 0.345 | ppm | | 0.345 | ppm | | |
| Na 589.592 | 136392.5 | 0.873 | ppm | | 0.873 | ppm | | |

Batch ID:
Sequence No.: 4
Sample ID: BG202207140106-K 100D
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 15:27:03
Data Type: Reprocessed on 28-07-2022 10:02:33
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202207140106-K 100D

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | K 766.490 | 43075.7 | 41872.2 | 1.907 | ppm | 1.907 | ppm | 15:27:19 |

Mean Data: BG202207140106-K 100D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| K 766.490 | 41872.2 | 1.907 | ppm | | 1.907 | ppm | | |

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Batch ID:
Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 17:27:03
Data Type: Reprocessed on 28-07-2022 10:17:41
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 22.9 | 22.9 | [0.00] | ppm | 17:27:31 |

Mean Data: Calib Blank 1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 22.9 | | | [0.00] | ppm |

Batch ID:
Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 17:29:03
Data Type: Reprocessed on 28-07-2022 10:17:42
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 56.5 | 33.6 | [0.02] | ppm | 17:29:24 |

Mean Data: Calib Std 1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 33.6 | | | [0.02] | ppm |

Batch ID:
Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 17:29:52
Data Type: Reprocessed on 28-07-2022 10:17:42
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 58.2 | 35.3 | [0.05] | ppm | 17:30:12 |

Mean Data: Calib Std 2

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 35.3 | | | [0.05] | ppm |

Batch ID:
Sequence No.: 4
Sample ID: Calib Std 3
Analyst:

Autosampler Location:
Date Collected: 27-07-2022 17:30:39
Data Type: Reprocessed on 28-07-2022 10:17:42

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Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 58.7 | 35.8 | [0.10] | ppm | 17:30:59 |

Mean Data: Calib Std 3

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 35.8 | | | [0.10] | ppm |

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

Autosampler Location:
Date Collected: 27-07-2022 17:31:27
Data Type: Reprocessed on 28-07-2022 10:17:42
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 4

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 112.3 | 89.4 | [0.5] | ppm | 17:31:48 |

Mean Data: Calib Std 4

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 89.4 | | | [0.5] | ppm |

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

Autosampler Location:
Date Collected: 27-07-2022 17:32:17
Data Type: Reprocessed on 28-07-2022 10:17:42
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 5

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 218.5 | 195.6 | [1.0] | ppm | 17:32:38 |

Mean Data: Calib Std 5

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 195.6 | | | [1.0] | ppm |

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

Autosampler Location:
Date Collected: 27-07-2022 17:33:06
Data Type: Reprocessed on 28-07-2022 10:17:43
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

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Replicate Data: Calib Std 6

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | S 180.669 | 412.2 | 389.3 | [2.0] | ppm | 17:33:26 |

Mean Data: Calib Std 6

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| S 180.669 | 389.3 | | | [2.0] | ppm |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| S 180.669 | 6 | Lin Thru 0 | 0.0 | 194.8 | 0.00000 | 0.995351 | |

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

Autosampler Location:
Date Collected: 27-07-2022 17:34:52
Data Type: Reprocessed on 28-07-2022 10:17:44
Signed By (Original): lokesh Kumar KM
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 | S 180.669 | 73.3 | 50.5 | 0.259 | ppm | 0.259 | ppm | 17:35:13 |

Mean Data: Reagent Blank 1

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| S 180.669 | 50.5 | 0.259 | ppm | | 0.259 | ppm | | |

Batch ID:
Sequence No.: 9
Sample ID: BG202207140106
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 17:38:43
Data Type: Reprocessed on 28-07-2022 10:17:44
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202207140106

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | S 180.669 | 1296.5 | 1273.7 | 6.281 | ppm | 6.281 | ppm | 17:39:03 |

Mean Data: BG202207140106

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| S 180.669 | 1273.7 | 6.281 | ppm | | 6.281 | ppm | | |

Batch ID:
Sequence No.: 10
Sample ID: BG20207140106-D
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 27-07-2022 17:45:06
Data Type: Reprocessed on 28-07-2022 10:17:44
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

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Replicate Data: BG20207140106-D

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | S 180.669 | 175.7 | 152.9 | 0.526 | ppm | 0.526 | ppm | 17:45:26 |

Mean Data: BG20207140106-D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| S 180.669 | 152.9 | 0.526 | ppm | | 0.526 | ppm | | |

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APPENDIX I

ARLBL/CHE/STP-024/FR-01

ESTIMATION OF METALS BY ICP-OES



| | | | |
|---|---|---|---|
| Sample Name | Agnikastra organic repellent | | |
| Report No. | BG20220714O106 | Batch No. | NA |
| Mfg. Date | NS | Exp. Date | NS |
| Test Parameter | Elemental Impurities | Analysis started Date | 28/07/22 |
| Test method | ARLBL/CHE/STP-024 | Analysis Completed Date | 28/07/22 |

Equipment / Instrument details

| Name of the instrument | Instrument ID | Calibration done date | Calibration due date |
|---|---|---|---|
| Analytical weighing Balance | ARL/BLEQ/AWB- 014 | 14/07/2022 | 14/08/2022 |
| Microwave digester | ARL/BLEQ/MWD- 002 | 30/12/2021 | 31/12/2022 |
| ICP-OES | ARL/BLEQ/ICPOES- 001 | 25/07/2022 | 25/08/2022 |

**PROCEDURE:**

**Weights of sample:**

For Linearity A/cr BG20220714O104

Working mode Weighing
Date 28.07.2022
Time 12:18:50
Balance S/N 684373
Instrument Id: ARL/BLEQ/AWB-014

0.5017 g
Date 28.07.2022
Time 12:20:18

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**Reagent preparation: (Diluent)**
Transferred 3.5 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)

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



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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 | 10 | 20 |
| 3 | Cooling | - | 10 |
| 4 | NA | NA | NA |

**Sample blank:**
Prepare the sample blank solution without sample using same reagents.

**Sample preparation:**
Weighed 0.5017 (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 $H_2O_2$ , NA ml of $HClO_4$ , 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:**

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



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**Calculation:**

$$P = \frac{0.157 \times 25}{0.5017} = 7.82 \text{ PPM}$$



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Reference Standard details:

| Sl. No. | Reference Standards | Batch No. | Expiry date |
|---|---|---|---|
| 1 | ~~Lead~~ Phosphorous | BLD2573 | 20/01/22 |
| 2 | Cadmium | | |
| 3 | Arsenic | | |
| 4 | Mercury | | |
| 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 | | |
| 23 | Tin | | |
| 24 | Chromium | | |
| 25 | Calcium | | |
| 26 | Potassium | | |
| 27 | Magnesium | | |
| 28 | Sodium | | |
| 29 | Iron | | |
| 30 | Zinc | | |

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Parameters:

| Sl. No. | Elements | Limit | Result | Status |
|---|---|---|---|---|
| 1 | P | - | 7.82 PPM | Pass/~~Fail~~ |
| 2 | | | | Pass/Fail |
| 3 | | | | Pass/Fail |
| 4 | | | | Pass/Fail |
| 5 | | | | Pass/Fail |
| 6 | | | | Pass/Fail |
| 7 | | | | Pass/Fail |
| 8 | | | | Pass/Fail |
| 9 | | | | Pass/Fail |
| 10 | | | | Pass/Fail |
| 11 | | | | 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 |

28/07/22

**Analysed By:**
**Date:** 28/07/22

**Checked By:**
**Date:** 29/07/2022



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Batch ID:
Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 28-07-2022 19:54:44
Data Type: Reprocessed on 28-07-2022 20:47:23
Signed By (Original): lokesh Kumar KM
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 | 5193.7 | 5193.7 | [0.00] | ppm | 19:54:58 |

Mean Data: Calib Blank 1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 5193.7 | | | [0.00] | ppm |

Batch ID:
Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 28-07-2022 19:55:21
Data Type: Reprocessed on 28-07-2022 20:47:23
Signed By (Original): lokesh Kumar KM
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 | 6231.6 | 1037.9 | [0.02] | ppm | 19:55:34 |

Mean Data: Calib Std 1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 1037.9 | | | [0.02] | ppm |

Batch ID:
Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 28-07-2022 19:55:58
Data Type: Reprocessed on 28-07-2022 20:47:23
Signed By (Original): lokesh Kumar KM
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 | 8303.3 | 3109.6 | [0.05] | ppm | 19:56:11 |

Mean Data: Calib Std 2

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 3109.6 | | | [0.05] | ppm |

Batch ID:
Sequence No.: 4
Sample ID: Calib Std 3
Analyst:

Autosampler Location:
Date Collected: 28-07-2022 19:56:42
Data Type: Reprocessed on 28-07-2022 20:47:24

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29/07/2022

Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

---

Replicate Data: Calib Std 3

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | P 213.617 | 12030.0 | 6836.3 | [0.1] | ppm | 19:56:55 |

---

Mean Data: Calib Std 3

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 6836.3 | | | [0.1] | ppm |

==========

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

Autosampler Location:
Date Collected: 28-07-2022 19:57:12
Data Type: Reprocessed on 28-07-2022 20:47:24
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

---

Replicate Data: Calib Std 4

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | P 213.617 | 42485.6 | 37291.8 | [0.5] | ppm | 19:57:26 |

---

Mean Data: Calib Std 4

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 37291.8 | | | [0.5] | ppm |

==========

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

Autosampler Location:
Date Collected: 28-07-2022 19:57:43
Data Type: Reprocessed on 28-07-2022 20:47:24
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

---

Replicate Data: Calib Std 5

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | P 213.617 | 85621.4 | 80427.7 | [1.0] | ppm | 19:57:56 |

---

Mean Data: Calib Std 5

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 80427.7 | | | [1.0] | ppm |

==========

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

Autosampler Location:
Date Collected: 28-07-2022 19:58:16
Data Type: Reprocessed on 28-07-2022 20:47:24
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

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Replicate Data: Calib Std 6

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | P 213.617 | 166611.0 | 161417.3 | [2.0] | ppm | 19:58:29 |

Mean Data: Calib Std 6

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| P 213.617 | 161417.3 | | | [2.0] | ppm |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| P 213.617 | 6 | Lin Thru 0 | 0.0 | 80330 | 0.00000 | 0.999832 | |

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

Autosampler Location:
Date Collected: 28-07-2022 19:59:25
Data Type: Reprocessed on 28-07-2022 20:47:25
Signed By (Original): lokesh Kumar KM
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 | P 213.617 | 4795.5 | -398.2 | -0.005 | ppm | -0.005 | ppm | 19:59:38 |

Mean Data: Reagent Blank 1

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| P 213.617 | -398.2 | -0.005 | ppm | | -0.005 | ppm | | |

Batch ID:
Sequence No.: 9
Sample ID: BG202207140106
Analyst:
Originator (Original): lokesh Kumar KM
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location:
Date Collected: 28-07-2022 20:05:20
Data Type: Reprocessed on 28-07-2022 20:47:25
Signed By (Original): lokesh Kumar KM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BG202207140106

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | P 213.617 | 17387.1 | 12193.4 | 0.157 | ppm | 0.157 | ppm | 20:05:33 |

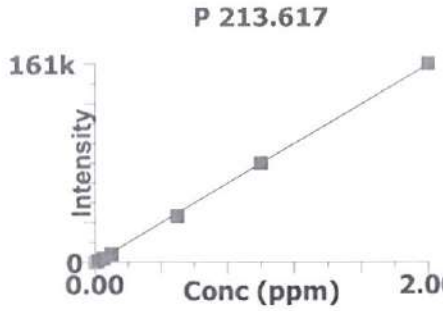
Mean Data: BG202207140106

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| P 213.617 | 12193.4 | 0.157 | ppm | | 0.157 | ppm | | |

29/07/2022

29/07/22

Method: Phosphorous.2
Result: 28072022-Rep




| | |
|---|---|
| Calibration equation | Lin Thru 0 |
| Correlation coefficient | 0.999832 |

1

28/07/22

29/07/2022

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PHARMACEUTICALS PRIVATE LIMITED
Analytical Division
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Phone : +91 11-45754575, Email : arbrolab@arbropharma.com, Website : www.testing-lab.com

# CERTIFICATE OF ANALYSIS

Information by Customer

**Report No.** : A202207210132

**Sample** : AGNIHASTRA ORGANIC REPELLANT
**Mfg. By** : NS
**Supplied By** : NS
**Mfg lic. No.** : NS
**Ref. No.** : NS
**Submitted By** : AURIGA RESEARCH PRIVATE LIMITED (BANGALORE)
**Address** : UNIT III, NO-136, 6th CROSS, 2nd STAGE, YESWANTHPUR, INDUSTRIAL SUBURB, BANGALORE, KARNATAKA- 560022 INDIA

| Batch No | Mfg. Date | Expiry Date | Batch Size | Sample Quantity |
|---|---|---|---|---|
| BG202207140106 | NS | NS | NS | 150 ml |

**Sample ID** : 202207210132 **Received On** : 21/07/2022
**Date of start of analysis** : 22/07/2022 **Date of completion of analysis** : 27/07/2022

Sample not drawn by laboratory.

Description :- Dark brown colour liquid

| <Parameters> | <Results> | <Unit> | <Req.> | <Claim> | <LLOQ> | <Lower limit> | <Upper limit> | <Method> |
|---|---|---|---|---|---|---|---|---|
| **Total bacterial count** | : 45000 | cfu/g | - | | - | - | - | IS: 5402:2012 (RA-2018) |
| **Total Fungal Count** | : Less than 10 | cfu/g | - | | - | - | - | IS:5403:1999(RA 2018) |
| **Pseudomonas aeruginosa** | : Absent | per g | - | | - | - | - | APL/MIB/STP-061 |
| **Listeria monocytogenes ,** | : Absent | per g | - | | - | - | - | IS 14988 (P-1):2020 |
| **S. aureus** | : Absent | per g | - | | - | - | - | IS-5887 (P-2)1976(RA-2018) |
| **Salmonella** | : Absent | per 25 g | - | | - | - | - | IS-5887 (P-3) Sec-1 : 2020 |
| **Total Lactobacillus count** | : 4120 | cfu/g | - | | - | - | - | APL/MIB/STP-008 |

*End of Report*

Report : CUSTOMER ASKED FOR THE ABOVE TESTS ONLY

Authorized Signatory Biological
Dr. Anurup Adak
Senior Manager Microbiology



Date :- Wednesday,Jul 27, 2022