

|   |  |                           |                     |
|---|--|---------------------------|---------------------|
| <b>Customer</b>                               | Galactic Minerals, P O Box 34144, Glenstantia, 0010  |                           |                     |
|   | 62 Rooiberg Street ,N4 Gateway Industrial Park Willow Park Manor X65, Pretoria, SOUTH AFRICA |                           |                     |
| <b>Test Required</b>                          | C.O.A.   | <b>Batch number</b>       | MR 210 705 D        |
| <b>TEST ITEM</b>                              |  |                           |                     |
| <b>Description</b>                            | Marnite Multi-Mineral, powder  | <b>Condition</b>          | In sealed container |
| <b>Identification</b>                         | Product, Batch, Exp. date  | <b>Date of Receipt</b>    | 22/09/2019          |
| <b>Number of Samples</b>                      | 1 kg Marnite Powder  | <b>Storage conditions</b> | At room temperature |
| <b>Storage date</b>                           | From 22/09/2019 to 27/09/2019  | <b>Date of Analysis</b>   | 22-27/09/2019       |
| <b>Environmental Conditions with analysis</b> | Temperature: 23 °C   | Humidity: 51%RH           |                     |

## RESULTS - CERTIFICATE OF ANALYSIS - BATCH MR 210 705 D

### MARNITE - MULTI MINERAL – ELEMENTAL COMPOSITION

#### 1. Product Specification

Marnite is a composite mineral with composition range from a marble to calcite and serpentine.

#### 2. Elemental Composition

| Element     | Reported as | Result in mass % | Tolerance    | Comment  |
|-------------|-------------|------------------|--------------|----------|
| Calcium     | Ca          | 22.15            | 20.5 – 23.0  | Complies |
| Magnesium   | Mg          | 13.57            | 13.0 – 14.2  | Complies |
| Silicon     | Si          | 9.81             | 9.0 – 10.0   | Complies |
| Iron        | Fe          | 0.46             | 0.4 – 0.5    | Complies |
| Sodium      | Na          | 0.19             | 0.1 - 0.25   | Complies |
| Potassium   | K           | 0.11             | 0.08 – 0.15  | Complies |
| Manganese   | Mn          | 0.039            | 0.004 – 0.01 | Complies |
| Phosphorous | P           | 0.008            | 20.5 – 23.0  | Complies |
| Moisture    | -           | 1.55             | 1.3 – 1.8    | Complies |

| Trace Metals        | Results in mass % | Tolerance | Comment  |
|---------------------|-------------------|-----------|----------|
| Cu                  | < 0.01            | < 0.01    | Complies |
| Ni                  | < 0.01            | < 0.01    | Complies |
| Zn                  | < 0.01            | < 0.01    | Complies |
| <b>Heavy metals</b> | < 0.002           | < 0.006   | Complies |

### 3. Product Description

The product is an off-white powder, usually milled to 600 mesh.

The product bulk density is 2.730 g/cm<sup>3</sup>

### 4. Product Microbiological data

| Element                | Reporting Unit     | Result    |
|------------------------|--------------------|-----------|
| Escherichia coli Count | cfu/g              | NO GROWTH |
| Total Plate Count      | cfu/g              | < 100     |
| Yeast Count            | cfu/g              | NO GROWTH |
| Mould Count            | cfu/g              | NO GROWTH |
| Salmonella spp.        | Detection per 25 g | NEGATIVE  |

### 5. Expiry Date of Product

3 Years Self Life

Expires September 2022

#### Indemnity Clause

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Dr RF van de Water  
Responsible Laboratory Manager

Date: 27 September 2019

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