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CERTIFICATE OF ANALYSIS

Product Code: 32620822 **Date of Manufacture:** 24/08/2022
Certificate Number: HFBA030621 **Date Certified:** 24/08/2022
Product Name: HF Bloom A **Storage Conditions:** 0-35°C
Hazards: H315: Causes skin irritation
H319: Causes serious eye irritation

The undersigned hereby certifies the following data to be true specification of the obtained results of tests and assays.

| Test | Results | Specifications |
|-----------------------------------|-------------------|------------------|
| Appearance | Burgundy | Conforms |
| Solubility | Complete in water | Conforms |
| Electrical Conductivity | 156.6 mS/cm | 160 ± 10 mS/cm |
| Acidity | 4.40 pH | 4.3 ± 0.3 pH |
| Specific Gravity | 1.22 g/ml | 1.22 ± 0.05 g/ml |
| Total Nitrogen (N) | 4.72 % | 4.0 % |
| Ammoniacal Nitrogen | 0.44 % | 0.2 % |
| Nitrate Nitrogen | 4.34 % | 3.8 % |
| Soluble Potash (K ₂ O) | 4.0 % | 3.0 % |
| Calcium (Ca) | 3.24 % | 3.0 % |
| Boron (B) | 0.03 % | 0.02 % |
| Cobalt (Co) | 8.2 ppm | 8 ppm |
| Iron (Fe) | 0.12 % | 0.1 % |
| Manganese (Mn) | 0.05 % | 0.05 % |
| Molybdenum (Mo) | 8.61 ppm | 8 ppm |
| Zinc (Zn) | 0.0118 % | 0.01 % |

Heavy Metals

| Test | Results | Specifications |
|-----------------|--------------|----------------|
| Arsenic (As) | <0.494 mg/kg | 112 mg/kg |
| Cadmium (Cd) | <0.482 mg/kg | 83 mg/kg |
| Cobalt (Co) | 7.99 mg/kg | 2,228 mg/kg |
| Mercury (Hg) | <0.005 mg/kg | 6 mg/kg |
| Molybdenum (Mo) | 8.17 mg/kg | 300 mg/kg |
| Nickel (Ni) | 1.17 mg/kg | 1,900 mg/kg |
| Lead (Pb) | <0.605 mg/kg | 463 mg/kg |
| Selenium (Se) | <1.12 mg/kg | 180 mg/kg |
| Zinc (Zn) | 250 mg/kg | 2,900 mg/kg |

Report Approved By:

Hussein Ramadan

Hussein Ramadan - Laboratory Manager

Approval

Date: 24/08/22

