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## CERTIFICATE OF ANALYSIS

**Product Code:** 32590122      **Date of Manufacture:** 01/14/2022  
**Certificate Number:** HFBA030621      **Date Certified:** 01/17/2022  
**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	140.3 mS/cm	160 ± 10 mS/cm
Acidity	3.74 pH	4.3 ± 0.3 pH
Specific Gravity	1.248 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 <sub>2</sub> 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:

  
Thomas Jones - Laboratory Manager

Approval Date: 07/04/22

