



CERTIFICATE OF ANALYSIS

| Product | Batch Number | Production date | Exp. Date |
|--------------------------------|--------------|-----------------|--------------|
| Soluble Seaweed Extract | 1411127Q | Oct 02, 2014 | Oct 02, 2017 |

| Item | Specification | Result |
|---|---------------|----------|
| Appearance | brown flake | Conforms |
| Odor | seaweed | Conforms |
| Solubility in Water | ≥ 99% Soluble | Conforms |
| pH | 9.5-10.5 | 9.4 |
| Organic Matter | ≥ 50% | 51.6% |
| Nitrogen (N) | 1% | 0.91% |
| Phosphorus (P ₂ O ₅) | ≥ 0.4% | 0.88% |
| Potassium (K ₂ O) | 14% | 15.3% |
| Amino Acids | ≥ 1.5% | 1.89% |
| Moisture | 5% | 4.21% |
| Alginic acid | ≥ 18% | 18.88% |
| Mannitol | ≥ 7% | 8.12% |
| Sulphur (S) | ≥ 1% | 1.56% |
| Calcium (Ca) | 0.3-0.6% | 0.39% |
| Magnesium (Mg) | 0.15-0.2% | 0.12% |
| Aluminum (Al) | 10-50 ppm | 22 ppm |
| Boron (B) | ≥ 24 ppm | 169 ppm |
| Cobalt (Co) | 1-5 ppm | 1.15 ppm |
| Iron (Fe) | > 0.4% | 0.74% |
| Iodine (I) | 500-850 ppm | 579 ppm |
| Manganese (Mn) | 25-45 ppm | 21 ppm |
| Cytokinin & Gibberellin | ≥ 600 ppm | 666 ppm |
| Cadmium (Cd) | Max. 3 ppm | 0.51 ppm |
| Copper (Cu) | Max. 20 ppm | 12 ppm |
| Nickel (Ni) | Max. 3 ppm | 0.90 ppm |
| Zinc (Zn) | Max. 100 ppm | 88 ppm |