



Talun Eco-Products Inc.

www.talunecoproducts.com

CERTIFICATE OF ANALYSIS

PRODUCT: CERTIFIED KELP EXTRACT POWDER (*L. japonica*) TEST DATE: MARCH.12TH, 2016

| ITEMS | Results |
|--|--------------------|
| 1. Appearance | Black brown powder |
| 2. Odor | Smell of seaweed |
| 3. Solubility in water | 100% |
| 4. PH | 8.92 |
| 5. Organic matter | 57.85% |
| 6. Maximum moisture | 5.1% |
| 7. Alginic acid | 9.7% |
| 8. Mannitol | 3.2% |
| 9. Amino acid | 1.05% |
| 10. Betaine | 40ppm |
| 11. Nitrogen(N) | 2.11% |
| 12. Phosphorus(P ₂ O ₅) | 3.79% |
| 13. Potassium(K ₂ O) | 20.77% |
| 14. Sulphur(S) | 1.4% |
| 15. Calcium(Ca) | 1% |
| 16. Magnesium(Mg) | 0.4% |
| 17. Sodium(Na) | 1.9% |
| 18. Aluminum(Al) | 25ppm |
| 19. Boron(B) | 323pm |
| 20. Cobalt(Co) | 0.5ppm |
| 21. Iron(Fe) | 1.1% |
| 22. Iodine(I) | 716ppm |
| 23. Manganese(Mn) | 2ppm |
| 24. Cytokinins | 5ppm |
| 25. Gibberellins | 1ppm |
| 26. Zinc(Zn) | 6ppm |
| 27. Copper(Cu) | 4mg/kg |
| 28. Cadmium(Cd) | 0.25µg/g |
| 29. Nickel(Ni) | 4.5µg/g |
| 30. Plumbum(Pb) | 2.1µg/g |
| 31. Hydrargyrum(Hg) | N/D |
| 32. Chromium(Cr) | 7.1µg/g |
| 33. Arsenic (As) | 7.2µg/g |

NOTE: N/D: none detected