

Certificate of Analysis

Product Name: Chitosan (Food Grade)
 Lot Number: 151125 Quantity: 800KGS
 Manufacture Date: 25 NOV 2015 Testing Date: 25 NOV 2015

| Items | Specifications | Results |
|---------------------------|----------------------------|--------------------|
| Appearance | Off-white | conform |
| D.A.C % | 90 min | 91.8 |
| Ash % | 1.0 max | 0.62 |
| Moisture % | 10.0 max | 8.9 |
| Insoluble % | 1.0 max | 0.1 |
| Viscosity(Mpa.S) | 500 (1%CTS,1%HAC,22) | 50 |
| Particle size | 80 mesh | conform |
| PH | 7--8.5 | conform |
| Arsenic (ppm) | 1 ppm max | conform |
| Pb (ppm) | 0.5 ppm max | conform |
| Coli form bacteria | Negative | Negative |
| Salmonella sp. | Negative | Negative |
| Yeast (cfu/g) | 100 max | Conform |
| Total plate count (cfu/g) | 1000 max | conform |
| Conclusion: | conform with specification | |
| Analyst | | Quality Department |

*(1) higher-purity chitosan with deacetylation degree over 95% available according to the request

*(2)The viscosity is determined at 22°C with 1% chitosan in 1% acetic acid.

