# JINAN JIUAN ESTER CHEMICAL CO.,LTD.

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| Product Name : | Urea | Country of Origin: | China |
| Batch No.: | S20171105 | Quantity: | 1000Kg |
| Manufacture Date: | 2017.11.04 | Package: | 25Kg/Drum |
| Expiry Date: | 2019.11.03 | Standard: | In-house |

| Item | Specification | Results | Test Method |
|---|---|---|---|
| Appearance | White crystalline granular | Conform | Visual |
| Assay (on a dry basis) | 99.0-100.5% | 99.28% | USP<461> |
| Loss on Drying | NMT 1.0% | 0.17% | USP<731> |
| pH(10% aqua): | 6.0-10.0 | 6.44 | USP<791> |
| Alcohol-insoluble matter | NMT 0.04% | Conform | USP |
| Melting range | 132-135℃ | Conform | USP<741> |
| Chloride | NMT 0.007% | Conform | USP<221> |
| Sulfate | NMT 0.01% | Conform | USP<221> |
| Residue on Ignition | NMT 0.1% | 0.02% | USP<281> |
| Heavy Metals | NMT 10 PPM | Conform | USP<231> |
| Arsenic | NMT 2 PPM | Conform | USP<211> |
| Lead | NMT 2 PPM | Conform | USP<251> |
| Total Plate Count | NMT 1000cfu/g | Conform | USP<61> |
| Yeast and Mold | NMT 100cfu/g | Conform | USP<61> |
| E.coli | Negative | Conform | USP<62> |
| Particle Size | Through 20 mesh | 100% | USP<786> |

**Conclusion:**

**The test results correspond to cosmetic grade of In-house Standard.**

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