

Certificate Of Analysis

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| Product name: L-cysteine | | Quantity: 1000kgs | |
| Batch No.: TNJ2015090203 | | Manufacture date: Feb.03,2015 | |
| Expiry date: Feb.02,2017 | | Send out date : Feb.04,2015 | |
| Items | Specifications | Results | |
| Specific optical rotation[α] _{D20} ^o | + 8.30 ~ +9.5 0 | +8.720 | |
| State of solution (Transmittance) | ≥95.0% | 98.9% | |
| Assay | 98.0%~101.0% | 99.63% | |
| Heavy metals(Pb) | ≤10PPM | <10PPM | |
| Chloride (Cl) | ≤0.04% | <0.04% | |
| Arsenic (As ₂ O ₃) | ≤1PPM | conforms | |
| Loss on drying | ≤0.50% | 0.14% | |
| Residue on ignition | ≤0.10% | 0.09% | |
| pH value | 4.5 ~ 5.5 | 4.9 | |
| Iron (Fe) | ≤10PPM | <10PPM | |
| Ammonium (NH ₄) | ≤0.02% | <0.02% | |
| Sulfate (SO ₄) | ≤0.030% | <0.030% | |
| Other amino acids | Chromatographically | Qualified | |
| Checker Xu Dong | | Rechecker Lu Xiaoping | |
| | | Approval Liu Wu | |
| Conclusion: This Batch Is Conforming With The Standard Of AJI92. | | | |
| COA Issuer Quality Control Team-Technology Department Of Hefei TNJ Chemical Industry Co.,Ltd. | | | |
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