

Certificate Of Analysis

Product Name: L-Valine

CAS No. 72-18-4

Packing: 25kg/drum

Batch No.:X20140216

Quantity:3000kg

Mfg Date:2014.02.16

Inspection Date: 2014.02.17

Expiry Date: 2016.02.15

Country Of Origin: China

| Items | Limits | Test results |
|--|--------------------------------------|--------------|
| Description | White crystals or crystalline powder | Conforms |
| Assay | 98.5%~101.5% | 99.7% |
| Identification (Infrared Absorption) | Corresponding to Reference Spectrum | Confirms |
| PH | 5.5~7.0 | 6.1 |
| Specific rotation | +26.6°~+28.8° | +27.3° |
| Residue on Ignition | ≤0.1% | 0.06% |
| Loss on Drying | ≤0.3% | 0.05% |
| Chloride (Cl) | ≤500ppm | <500ppm |
| Iron(Fe) | ≤30ppm | <30ppm |
| Sulfate (SO ₄) | ≤300ppm | <300ppm |
| Heavy Metals | ≤15ppm | <15ppm |
| Lead (Pb) | ≤5ppm | <5ppm |
| Arsenic (As) | ≤3ppm | <3ppm |
| Cadmium (Cd) | ≤1ppm | <1ppm |
| Mercury (Hg) | ≤1ppm | <1ppm |
| Total Plate Count | ≤5000cfu/g | <5000cfu/g |
| Yeast and Molds | ≤100cfu/g | <100cfu/g |
| E.Coli | Negative in 10g | Confirms |
| Staphylococcus Aureus | Negative in 10g | Confirms |
| Salmonella | Negative in 10g | Confirms |
| Mesh Size (80mesh pass rate) | ≥95% | 98% |
| Storage Condition | Stored In Cool and Dry place | |
| Conclusion: Passed test according to the Standard of USP 24. | | |

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