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CERTIFICATE OF ANALYSIS

Product Name	L-Valine		
Reference standard	USP24		
Quantity	3000kgs	Package	25kg/ drum
Batch Number	20220516	Manufacture Date	20220516
Report Date	20220516	Expiry Date	20240515

Item of Analysis	Specification	Results
Appearance	White crystals or crystalline power	Conforms
Identification	Concordant with the reference spectrum	Conforms
Assay/%	98.5~101.5	98.5~101.5
РН	5.5~7.0	6.2
Specific rotation	+26.6° ~+ 28.8°	+27.4°
Residue on ignition/%	≤0.10	0.08%
Loss on drying/%	≤0.30	0.09%
Chloride (Cl)/%	≤0.05	<0.05%
Iron	≤30ppm	< 30ppm
Sulfate(SO ₄)	≤0.03	<0.03%
Arsenic (As)	≤1.5ppm	< 1.5ppm
Heavy metals (Pb)	≤15ppm	< 15ppm
Organic volatile inpurities	Meets the requirements	conforms

Conclusion: passed test according to the Standard of USP24 BIOTO

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.