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Certificate of analysis

INVOICE NO.:TTSFC564/23
PO No.:6697

Product Name :L-Valine	QUANTITY:500 KGS	BATCH NO.23080501
Producing date:Aug,05,2023	RE-TEST date: Aug.04,2026	
Reference standard: USP24	Package: 25kg/drum	

ITEM	Standards	RESULT
Lest items	White crystals or crystalline powder;	conforms
Identification(IR)	Concordant with the reference spectrum	conforms
pH	5.5-7.0	5.7
Assay	98.5%-101.5	99.8%
Loss on drying	Not more than 0.30%	0.2%
Specific Rotation	+26.6--+28.8	27.9
Chloride(Cl)	Not more than 0.05%	<0.05%
Sulfate(SO ₄)	Not more than 0.03%	<0.03%
Heavy Metals	≤15ppm	<15ppm
Organic volatile impurities	Meets the requirements	conforms
Iron(Fe)	≤30ppm	<30ppm
Residue on ignition	≤0.10%	0.09%

Conclusion: This product conforms to USP24 standard.

REF PT-25186-777 LOTE 318210

APROBADO
AV-588-201
LOTE: 308 977