

SUNNY CHEMGROUP CO., LIMITED

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Certificate of analysis

INVOICE NO.:TTSFC612/24

PO No.:6773

Product Name :L-Valine	QUANTITY:500 KGS	BATCH NO.5231204009
Producing date:2023/12/04	RE-TEST date: 2025/12/03	
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	6.04
Assay	98. 5%-101. 5	99.6%
Loss on drying	Not more than 0.30%	0.05%
Specific Rotation	+26.6-- +28.8	28.2
Chloride(Cl)	Not more than 0.05%	<0.05%
Sulfate(SO4)	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%	0.03%

Conclusion: This product conforms to USP24 standard.

AV-588-101
306136
03/07/24

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fms pta

REF PT-25186-777 LOTE 319045