

REF PT-25186-777 319661

SUNNY CHEMGROUP CO., LIMITED

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Certificate of analysis

INVOICE NO.:TTSFC583/23

PO No.:6723

Product Name :L-Valine	QUANTITY:500 KGS	BATCH NO.5240501001
Producing date:2024/05/01	RE-TEST date: 2026/04/30	
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	28.6
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.

AN-588-101

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FMS 14/05/24

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