

SUNNY CHEMGROUP CO., LIMITED

ADDRESS: 218 C 5/F JAFFE MANSION 218 JAFFE RD WAN CHAI HONGKONG

(TAX ID: 6248141400012176)

Certificate of analysis

INVOICE NO.:TTSFC550/23

PO NO.:6670

SAMPLE NAME	L-tryptophan	BATCH NO.	23081802
QUANTITY	500 KGS	DATE OF MANUFACTURE	2023.08.18
SPECIFICATION	USP39	RE-TEST DATE:	2025.08.17
Sampling date:	2023.08.18	Report date:	2023.08.18

ITEM	Standards	RESULT
Appearance	White-like Crystalline powder	Conforms
Specific Rotation	-29.4° ~ -32.8°	-30.9°
PH	5.5~7.0	5.8
Loss on drying	≤0.30%	0.05%
Residue on ignition	≤0.1%	0.06%
Chloride	≤0.05%	<0.05%
Sulfate	≤0.03%	<0.03%
Iron	≤0.003%	<0.003%
Heavy Metals	≤0.0015%	<0.0015%
Assay(dried basis)	98.5~101.0%	99.3%

Conclusion: This product conforms to USP39 standard.

For and on behalf of
SUNNY CHEMGROUP CO., LIMITED
陽光化工集團有限公司

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Authorized Signature(s)

At 585.100 30580P 71AA
APROBADO
13/12/2023

REF PT-25222-777 LOTE 317685