

SUNNY CHEMGROUP CO., LIMITED

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

(TAX ID: 6248141400012176)

Certificate of analysis

INVOICE NO.:TTSFC377/21

PO No.:6321

SAMPLE NAME	L-Phenylalanine	BATCH NO.	20211212
QUANTITY	500 KGS	DATE OF MANUFACTURE	2021.12.12
SPECIFICATION	USP32	EXP.DATE:	2027.05.31

ITEM	Standards	RESULT
Appearance	White crystalline powder	Conforms
Specific Rotation	- 33.2° ~ -35.2°	-33.7°
Assay	98.5%~101.5%	99.6%
PH	5.4~6.0	5.6
Chloride	≤0.05%	<0.05%
Sulphate	≤0.03%	<0.03%
Iron	≤30ppm	<30ppm
Heavy Metals(Pb)	≤15ppm	<15ppm
Loss on drying	≤0.30%	0.15%
Residue on ignition	≤0.40%	0.04%
Other Amino Acid	Meet the requirements	Conforms

Conclusion: This product conforms to USP32 standard.

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

.....
Authorized Signature(s)

REF PT-25199-777 LOTE 319561