



UNITED
INTERNATIONAL INC.

Qingdao Free Trade Zone United International Co., LTD

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CERTIFICATE OF ANALYSIS

PO.:6.263

PRODUCT: L-PHENYLALANINE

BATCH NO.: 20210919

MFG DATE: SEP.19, 2021

EXPIRY DATE:FEB.18, 2025

TESTING RESULT		
ITEM	SPECIFICATION	RESULT
Appearance	White crystals or crystalline powder	Conform
Assay (C ₂ H ₅ NO ₂),	98.5~101.5%	99.0%
Specific rotation [α]	-33.2° ~ -35.2°	-33.6°
Heavy metals [Pb] :	0.0015% max	<0.0015%
Loss on drying :	0.3% max	0.16%
Residue on ignition,	0.4% max	0.19%
Chloride(as Cl)	0.05% max.	<0.05%
Sulphate (as SO ₄),%	0.03% max	<0.03%
Iron (as Fe)	30ppm max	<30ppm
PH	5.4~6.0	5.7
Other amino acids	Complies	Complies
CONCLUSION: BE IN ACCORDANCE WITH USP35		

For and on behalf of
QINGDAO FREE TRADE ZONE
UNITED INTERNATIONAL CO., LTD.

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Authorized Signature(s)