



UNITED
INTERNATIONAL INC

Qingdao Free Trade Zone United International Co., LTD

18/F, Huaree International Building,
2A Shandong Road, Qingdao, China 266071
Tel: 86-532-86069595; 83891503-509
Fax: 86-532-83893696; 83893695

CERTIFICATE OF ANALYSIS

PO.:6.263

PRODUCT: L-LYSINE HCL MONOHYDRATE

BATCH NO.: 20210930

MFG DATE: SEP.30, 2021

EXPIRY DATE: SEP.29, 2023

TESTING RESULT		
ITEM	SPECIFICATION	RESULT
Appearance	White crystals or crystalline powder	Conform
Identification	Infrared absorption	Conform
Assay (C ₂ H ₅ NO ₂),	99.0~101.5%	99.3%
Specific rotation [α]	+20.4° ~ +21.4°	+21.0°
Heavy metals [Pb]:	0.0015% max	<0.0015%
Loss on drying:	0.4% max	0.3%
Residue on ignition,	0.1% max	0.06%
Chloride(as Cl)	19.0-19.6	19.15
Sulphate (as SO ₄),%	0.03% max	<0.03%
Iron (as Fe)	30ppm max	<30ppm
Other amino acids	Complies	Complies
CONCLUSION: BE IN ACCORDANCE WITH USP35		

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

Authorized signature(s)

AL-002-100
305114
02/02/22
MAM
APROBADO