

BaseBulk

CERTIFICATE OF ANALYSIS

Parameter	Details
Product name	L-PHENYLALANINE
Standard	FCC6
Batch / Lot number	2404CR269
Manufactured date	25/04/2024
Expiration date	24/04/2029

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Description	White crystals or crystalline powder	Crystalline powder
Identification (IR)	Concordant with the reference spectrum	Concordant with the reference spectrum
Specific rotation $[\alpha]_{D20}$	-33.2° ~ -35.2°	-34.0°
Assay	98.5 ~ 101.5%	99.65%
Loss on drying	≤0.20%	0.02%
Residue on ignition	≤0.10%	0.03%
pH	5.4 ~ 6.0	5.68
Chloride (Cl)	≤0.021	<0.021%

Heavy Metals

Analysis Item	Specification	Result
Heavy metals (as Pb)	≤15 ppm	<15 ppm
Lead	≤3 ppm	<3 ppm
Arsenic (As)	≤1 ppm	<1 ppm
Mercury	≤0.1 ppm	<0.1 ppm
Cadmium	≤1 ppm	<1 ppm

Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	≤10000 CFU/g	<1000 CFU/g
Yeast & Mold	≤1000 CFU/g	<100 CFU/g
Salmonella	Absent/10 g	Absent/10 g
Enterobacterias	Absent/g	Absent/g

Staphylococcus aureus	Absent/g	Absent/g
E. coli	Absent/g	Absent/g

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