



Certificate of Analysis

Product Name:	DL-Phenylalanine	Batch Number:	Varies
CAS No.	150-30-1	Manufacture Date:	Varies
Molecular Formula:	C₉H₁₁NO₂	Expiry Date:	Varies

IDENTIFICATION		SPECIFICATION	RESULT
Assay		98.5 ~ 101.5%	99.1 - 99.2%
Physical	Appearance	White crystals / White crystalline powder	Complies
	Particle size	80% pass 40-80 mesh	Complies
	Loss on drying	≤ 0.20%	0.10 - 0.15%
	Residue on ignition	≤ 0.10 - 0.30%	0.07 - 0.08%
Chemical	Heavy Metals	≤ 10 - 20 ppm	Complies
	Lead (Pb)	≤ 0.5 - 3 ppm	Complies
	Arsenic (As)	≤ 1 ppm	Complies
	Cadmium (Cd)	≤ 1 ppm	Complies
	Mercury (Hg)	≤ 0.1 - 1 ppm	Complies
Microbial	Total Plate Count	≤ 1000 cfu/g	Complies
	Yeast	≤ 100 cfu/g	Complies
	Mold	≤ 100 cfu/g	Complies
	E. coli, Salmonella	Negative	Complies
Else	Storage condition	Sealed, kept in shady and dry place	
	Shelf life	Two years	

