

## CERTIFICATE OF ANALYSIS

PRODUCT NAME:	L-PHENYLALANINE
CAS NO.:	63-91-2
MOLECULAR WEIGHT:	165.19
MOLECULAR FORMULA:	C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>
STORAGE TEMP:	+ 20 °C
BATCH NO.:	25/MFM/3217
EXPIRY DATE:	17 <sup>th</sup> July 2032

TESTS	SPECS	RESULTS
Assay	99.0% to 101.0%	100%
Appearance	White crystals or crystalline powder	Complies
Identification	IR	Complies
Specific Optical Rotation:	-35.2° to -33.2°	- 33.9°
pH	5.4 to 6.0	5.7
Loss on Drying	≤ 0.2%	≤0.1%
Residue on Ignition	≤ 0.1%	Conforms
Lead (Pb)	≤ 3 ppm	Conforms
Cadmium (Cd)	≤ 1 ppm	Conforms
Mercury (Hg)	≤ 0.1 ppm	Conforms
Arsenic (As)	≤ 1 ppm	Conforms
Heavy Metals (as Pb)	≤ 20 ppm	Conforms

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30<sup>th</sup> October 2025