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Certificate of Analysis

Product Description: L-Norvaline
Catalog Number: 102495
Lot: S7836**Formula:** $C_5H_{11}NO_2$
CAS #: 6600-40-4
Physical Description: White Powder**Formula Weight:** 117.15
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c= 2, 6N HCl)	+23 ± 5°	+23.65°

Assay: 100.3%

Solubility in 3N.HCl: Clear and colorless

Loss on drying: 0.01%

Residue on ignition (as Sulfate): 0.0%

Chloride: Not more than 0.03%

Sulfate: Not more than 0.05%

Heavy Metals (as Pb): Not more than 10 ppm

Iron: Not more than 10 ppm

Ammonium salts: Not more than 0.02%

Arsenic: Not more than 1 ppm

Other amino acids: Not detected by TLC (The spotted amount, 10ug)

Recommended Retest Date (MM/DD/YYYY): 01/25/2027

01/26/2022 - John Huang, PhD
MP Biomedicals, LLC.
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