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Certificate of Analysis

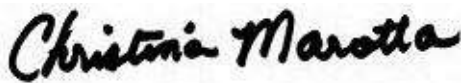
Product Description: D-Valine
Catalog Number: 103226
Lot: M7283

Formula: C₅H₁₁NO₂
CAS #: 640-68-6
Physical Description: White Powder

Formula Weight: 117.15
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.6%
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c=2, 6 N HCl)	-26° to -32°	-28.2°C (c=8, 6N HCl)

Solubility: Clear, Colorless
Loss on drying: 0.04%
Residue on ignition (as Sulfate): 0.00%
Other Amino acids: Not detected



07/23/2013 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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