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Certificate of Analysis

Product Description: D-Biotin
Catalog Number: 101023
Lot: SR05287

Formula: C₁₀H₁₆N₂O₃S
CAS #: 58-85-5
Physical Description: White Powder

Formula Weight: 244.3
Storage: 2 - 8°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥97.5%	99.20% (HPLC, Dry Basis)
FTIR	Conforms to Standard	Conforms to Standard
Reaction (0.02% aq soln)	Very Slightly Acidic to Litmus	Very Slightly Acidic to Litmus
Melting Point	223 - 233°C	229.7 - 231.2°C
Optical Rotation (c=2, 0.1 N NaOH)	+89 to +93°	+91.6°
Organic Volatile Impurities	Passes	Passes
Expiration Date	Month/Day/Year	03/01/2024

Particle Size: 100% pass 200 mesh
Bulk Density: About 0.51 g/ml
Tapped Density: 0.93 g/ml
Heavy Metal: <10 ppm
Arsenic: <1.0 ppm
Cadmium: <1.0 ppm
Lead: <0.5 mg/kg
Mercury: <0.1 ppm
Residual Solvent
- Toluene: <100 ppm
- 2-Propanol: Not Detected (GC)
Related Compounds
- Individual Impurity: 0.18% (HPLC)
- Total Impurity: 0.18% (HPLC)
Loss on Drying: <1.00%
Residue on Ignition: <0.1%
Microbiology
- Total Plate Count: <10 cfu/g
- Yeast & Mold: <10 cfu/g
- Coliforms: Negative
- E.coli: Negative
- Staph Aureaus: Negative
- Salmonella: Negative



03/15/2022 - Lily Meng
MP Biomedicals, LLC.
QC Chemist

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