



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-055
Product	D-Biotin
Lot Number	002036-160903 Vitamin H D-cis-Hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid
CAS Number	58-85-5
Molecular Formula	C ₁₀ H ₁₆ N ₂ O ₃ S
Molecular Weight	244.31

Appearance	White crystalline powder
Solubility	Very slightly soluble in water
Melting Point	229-233 °C
Mould and Yeast	≤ 100 cfu/g
Optical Rotation	[α] _D ²⁵ = +90°
Infrared Spectrum	Conforms to reference spectrum
Loss on Drying	0.3%
Residual Solvents	Meet requirements Benzene: < 0.2 ppm Toluene: < 10 ppm DMSO: < 500 ppm
E. Coli	Not detected/1 g
Enterobacteriaceae	Not detected/1 g
Microbial Count	≤ 1000 cfu/g (Total aerobic count)
Pseudomonas Aeruginosa	Not detected/1 g
Salmonella	Not detected/1 g
Staphylococcus Aureus	Not detected/1 g
Related Substances	Individual impurity: 0.2% Total impurity: 0.2%
Assay by titration	99.8%
Grade	USP
Storage	Store at 0-8 °C

Prepared by:
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Ramesh Mandadi
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VP