

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	D-Biotin (Vitamin B7)/Biotin
2. Synonyms	Vitamin B7, Bios II, Vitamin H; Coenzyme R 5-[(3aS,4S,6aR)-2-Oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl]pentanoic acid
3. CAS Number	58-85-5
4. Formula	$C_{10}H_{16}N_2O_3S$
5. Batch No & Mfg. Date	As mentioned on Label
6. Date Of Exp	3 Years From MFG Date
7. Date of Analysis	Dec-2024

Test	Specification	Result Obtained
Description	Preictally white crystalline powder	White Crystalline Powder
Identification		
A) IR Spectrum	Match with a reference IR spectrum	Complies
B) Specific Optical Rotation	It meets the requirement in specific test for optical rotation	Complies
Retention Time	Should be similar to that of the reference solution.	Complies
Solubility	Very slightly soluble in water and alcohol, in soluble in other common organic solvents	Complies
Specific Rotation	+89° to +93°	+90.31°
IMPURITIES		
Individual Impurities	NMT 1.0%	0.14%
Total Impurities	NMT 2.0%	1.03%
Assay	97.5% - 102.0%	98.08%