



American International Chemical, Inc.

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SPECIFICATION SHEET

BIOTIN USP

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
BTNAUP	1515 1493	58-85-5	September 8, 2011	LR	No. 3	RVK

CHARACTERISTICS:	White crystalline powder. Also known as vitamin H. Soluble in water and alcohol. Insoluble in common organic solvents. Melting point approximately 230-232°C. Stable in air, heat, and neutral to acidic solutions. Destroyed by strong alkali or oxidizing agents.
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MOLECULAR FORMULA:	C ₁₀ H ₁₆ N ₂ O ₃ S
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MOLELCULAR WEIGHT:	244.31
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SPECIFICATIONS:	Assay	97.5-100.5%
	Identification	To pass test
	Specific rotation	Between +89° and + 93°
	Residual solvents	Meets requirements
	Related substances	To meet EP requirements
	Appearance of solution	Clear and colorless
	Heavy metals	10 ppm max
	Lead	2 ppm max
	Melting point	Between 229.0°C and 233.0°C
	Loss on drying	1.0% max
	Sulfated ash	0.1% max
	Total plate count	1,000 cfu/g max
	Mold and yeasts	100 cfu/g max
	Escherchia coli	Negative
Salmonella	Negative	

STOCKING POINTS:	Bridgeport, CT
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PACKAGING:	1 kg tin
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APPLICATIONS:	Nutritional food and vitamin supplements
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SHELF LIFE:	Recommended retest date - two years from date of manufacture
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OTHER:	Kosher certified KOF-K
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