

Certificate of Analysis

Product Name:	Biotin Pure
Molecular Formula:	C10H16N2O3S
CAS#	58-85-5
Molecular Weight:	244.31
Carrier:	None
Country of Origin:	China
Batch Number:	Varies
Manufacture Date:	Varies
Retest Date:	Varies

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Biotin (HPLC)	97.5-102%	98.51%
Arsenic	Report Only	<0.0100 ppm
Cadmium	Report Only	<0.00500 ppm
Lead	Report Only	<0.00500 ppm
Mercury	Report Only	<0.00500 ppm
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Yeast & Mold	≤100 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Salmonella</i>	Negative	Absent
<i>Staph aureus</i>	Negative	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Appearance	Practically white crystalline powder	Conforms
Solubility	Very slightly soluble in water and in alcohol; insoluble in other common organic solvents	Conforms
Identification A. Infrared Absorption	To match with the reference IR spectrum	Conforms
B. Specific Optical Rotation	Meet the requirements	Conforms
C. HPLC	The retention time of the major peak of the sample solution corresponds to that of the standard solution as obtained in the assay	Conforms
1. Individual Impurity	≤1.0%	0.05%
2. Total Impurity	≤2.0%	0.05%
Residual Solvents (Toluene)	≤890 ppm	<20 ppm
Optical Rotation	+89°-+93°	+90.4°
Conclusion (Manufacturer):	This product conforms to USP41 standards	

Additional Information:	Non- Allergen BSE-TSE Free Gluten- Free Vegan
Sterilization Method:	Non-Irradiated Non-EtO
GMO Statement	Non-GMO
Storage Conditions:	Keep in sealed container under 25°C. Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson / Nicole Rammage

(This document was produced electronically and is valid without signature.)