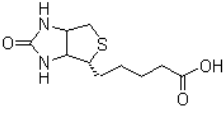


**CERTIFICATE OF ANALYSIS**

NO: DYC091801046

Product Name	Biotin
CAS Number	58-85-5;22879-79-4
Molecular Formula	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Structure	
Batch Quantity	300 KGS
Batch Number	1708142
Packing	5 KG/TIN
Mfg. & Exp. Date	2017-08-14 & 2019-08-13
Test Date	2017-08-14

Item	Standard	Result
Appearance	White or almost white crystalline powder	Conform
Identification	The retention time of sample in the main peaks correspond to that of the ref. standard	Conform
	IR should conform	Conform
Specific rotation	+89.0~+93.0°	+91.4°
Loss on drying	≤0.4%	0.06%
Related substances	Any single impurity≤1.0%	<0.1%
	Total impurities≤2.0%	<0.1%
Residual solvents	Toluene≤100ppm	<10ppm
	Benzene≤2ppm	<0.5ppm
	DMSO≤5000ppm	<500ppm
Total plate count	≤1000cfu/g	Not detected
Yeasts & moulds	≤100cfu/g	Not detected
E-coli	Not detectable / 1g	Not detected
Staphylococcus aureus	Not detectable / 1g	Not detected
Pseudomonas aeruginosa	Not detectable / 1g	Not detected
Enterobacteria	Not detectable / 1g	Not detected
Salmonella	Not detectable / 10g	Not detected
Assay	97.5~100.5%	99.2%
Conclusion	This product conforms to USP39 & In-house standard.	

QUALITY CONTROL:

Hangzhou Dingyan Chem Co., Ltd.  
Quality Control *Lucy Tang*

CHECK: 姚仙娟

INSPECTOR: 刘清风