

CERTIFICATE OF ANALYSIS

Product Name	D-Biotin	Batch No	PY-DB20200515
Quantity	50KG	Analysis Date	May.18,2020
Mfg. Date	May.15,2020	Exp. Date	May.14,2022
Package	1kg/BAG	Standard	USP39

No.	Item	Specification	Result
1.	Appearance	White or off-white crystalline powder	Complies
2.	Identification	Infrared Absorption	Infrared Absorption
3.	Specific Rotation	+89° ~ +93°	+90.8°
4.	Melting range	229°C ~232°C	229.8°C ~231.4°C
5.	Ash	≤0.1%	0.07%
6.	Solution color and clarity	Solution clarity and the sample should be light in color standard	Complies
7.	Organic Volatile Impurity	Meet USP requirments	Meet USP requirements
8.	Assay	97.5%-102.0%	98.8%
9.	Loss on Drying	≤0.5%	0.07%
10.	Heavy Metals	≤10mg/kg	<10mg/kg
11.	Pb	≤2mg/kg	<2mg/kg
12.	As	≤1mg/kg	<1mg/kg
13.	Single impurities	≤1.0%	0.6%
14.	Total impurities	≤2.0%	0.6%
15.	Total number of colonies	≤1000cfu/g	<1000cfu/g
16.	Molds and yeast	≤100cfu/g	<100cfu/g
17.	Salmonella	Not be detected	Not detected

Conclusion: Conform to the USP39 Standard.

Storage: Keep containers dry and tightly closed to avoid toxic and hazardous substances.

Analyst: xuli

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