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CERTIFICATE OF ANALYSIS

Berberine Hcl

 $(5,6-Dihydro-9,10-dimethoxy-benzo[g]-1,3-benzodioxolo[5,6-a] quinolizinium\ hydrochloride)$

Material Lot #:180510Manufacture Date:05/10/2018Country of Origin:ChinaRetesting Date:09/19/2021

Botanical Source: Phellodendron amurense

Analysis Claim Result

Berberine Hcl ≥98.0% 98.02%

Test	Specification	Result
Appearance	Yellow-Orange Fine Powder	Complies
Loss on Drying	<12.0%	9.6%
Residue on Ignition	≤0.06%	0.06%
Heavy Metals	≤10 ppm	Complies
Solvent Residue	≤ 5000 ppm	Complies
Total Plate Count	≤1000 CFU/g	Complies
Yeast & Mold	≤100 CFU/g	Complies
E.Coli	Negative	Complies
Pseudomonas aeruginosa	Negative	Complies

Berberine Hcl should be stored at or below room temperature in a tightly sealed durable container. Berberine Hcl should be protected from excess heat, direct sunlight, excess humidity and moisture. Berberine Hcl has a stable shelf life of 3 years from the date of testing when properly stored.



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Certificate of Analysis

Synaptent LLC 47 W Polk Street, 100-241 Chicago, IL 60654

Product Name	Berberine HCL	Product Lot Number	180510
Report Date	09/20/2018	Laboratory Number	10854

Description	Method	Result
Identification	1H NMR	Conform
Assay	HPLC	99.6 %
Lead	ICP-MS	0.071 ppm
Arsenic	ICP-MS	<0.001 ppm
Cadmium	ICP-MS	0.384 ppm
Mercury	ICP-MS	0.130 ppm
Total Aerobic Count	Biolumix	<10 CFU/g
Yeast and Mold	Biolumix	<10 CFU/g
E. Coli	Biolumix	Absent
Coliform	Biolumix	<10 CFU/g
Salmonella	Biolumix	Absent

Michael Robil
QA Auditor

09/20/18 09/20/2018 Date

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