

CERTIFICATE OF ANALYSIS

Product Name	Berberine extract	Manufacture	2024/10/25
Botanical Latin Name	<i>Berberis vulgaris</i>	Expire Date	2027/10/24
Source	Root	Issue Date	2024/10/26
		Batch Number	B20241025

Items	Specification	Result	Test Method
Physical&Chemical Data			
Appearance	Brown yellow fine powder	Conforms	Visual
Odor&Taste	Characteristic	Conforms	Organoleptic
Identification	Positive	Conforms	TLC
Extract Ratio	10:1	Conforms	TLC
Particle size	95% pass 80 mesh	Conforms	80 Mesh Screen
Loss on drying	≤5.0%	3.20%	CP2015
Residue on Ignition	≤10.0%	4.39%	CP2015
Bulk Density	0.3-0.6g/ml	Conforms	CP2015
Tapped Density	0.5-0.9g/ml	Conforms	CP2015
Heavy Metals			
Heavy Metals	NMT10ppm	<10ppm	Atomic Absorption
Lead(Pb)	NMT3.0ppm	<3.0ppm	Atomic Absorption
Arsenic (As)	NMT2.0ppm	<2.0ppm	Atomic Absorption
Mercury(Hg)	NMT0.1ppm	<0.1ppm	Atomic Absorption
Cadmium(Cd)	NMT1.0ppm	<1.0ppm	Atomic Absorption
Microbiological			
Total Plate Count	NMT10,000cfu/g	<1,000cfu/g	CP2015
Total Yeast & Mold	NMT1,000cfu/g	<100cfu/g	CP2015

E.coli	Negative	Negative	CP2015
Salmonella	Negative	Negative	CP2015
Staphylococcus	Negative	Negative	CP2015

General Status	Non-GMO, Allergen Free, Non-Irradiation
Shelf Life	3 years

Base Bulk