

CERTIFICATE OF ANALYSIS

Product Name	Berberine HCL
Botanical name	Berberis Aristata
Part used	Root
Batch No.	244-25041401
Representative Qty.	2000 kg
Manufacture date	2025-04-14
Expiry date	2028-04-13
Shelf life	3 years
Specification	97% (granular)

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	Yellow granule	Complies
Odor & Taste	Odorless and bitter in taste	Complies
Loss on drying	≤12.00%	8.88%
Residue on ignition	≤2.00%	0.20%
Bulk density	0.300–0.700 g/ml	Complies
Tapped density	0.400–0.900 g/ml	Complies
Particle size	90–100% through 20 mesh; NMT 30% through 60 mesh	99.4% through 20 mesh; 14.2% through 60 mesh
Assay (Berberine HCl)	≥97.00%	97.90%

Heavy Metals

Analysis Item	Specification	Result
Heavy metals (total)	≤10 ppm	Complies
Arsenic (As)	≤1 ppm	Complies
Lead (Pb)	≤2 ppm	Complies
Cadmium (Cd)	≤1 ppm	Complies
Mercury (Hg)	≤0.5 ppm	Complies

Microbiological Tests

Analysis Item	Specification	Result
Total microbacterial count	≤1000 CFU/g	Complies
Yeast & Mould	≤100 CFU/g	Complies
Escherichia coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus aureus	Negative	Negative

Packaging & Storage

Packaging	Pack in paper-drums and two plastic bags inside. Net weight: 25 kg/drum
Storage	Sealed, kept in a shady & dry place

Base Bulk