



HERBAL EXTRACT

Berberine HCl 97%

Berberis aristata · Indian Barberry (Daruharidra) · Dry Roots

RESULT

Conforms

BOTANICAL NAME Berberis aristata	PART USED Dry Roots	PREPARATION Dry extract powder	STANDARDIZATION Berberine HCl NLT 97% (HPLC)
MFG. DATE May 2025	EXP. DATE April 2028	BATCH SIZE 100 kg	COUNTRY India

S.NO	PARAMETER	SPECIFICATION	METHOD	RESULT
1.0	DESCRIPTION			
1.1	Composition	Berberis aristata extract 100%	—	Complies
1.2	Appearance	Powder	Visual	Complies
1.3	Colour	Yellow crystalline powder	Visual	Complies
1.4	Odour	Odourless	—	Complies
2.0	ANALYTICAL DATA			
2.1	Moisture content	NMT 12.50% w/w	By KF	7.52% w/w
2.2	Residue on ignition	NMT 1.0% w/w	USP <281>	0.11% w/w
2.3	Solubility	Soluble in water	In-house	Complies
3.0	ASSAY (ON DRY BASIS)			
3.1	Berberine hydrochloride	NLT 97.0% w/w	By HPLC	98.27% w/w
4.0	HEAVY METALS			
4.1	Heavy metals (as Lead eq.)	NMT 10 ppm	USP <231>	Complies
4.2	Lead	NMT 3.0 ppm	ICP-MS	0.60 ppm
4.3	Cadmium	NMT 1.0 ppm	ICP-MS	0.11 ppm
4.4	Arsenic	NMT 1.0 ppm	ICP-MS	0.10 ppm
4.5	Mercury	NMT 0.1 ppm	ICP-MS	0.05 ppm
5.0	CONTAMINANTS & RESIDUAL SOLVENTS			
5.1	Aflatoxins B1 / B2 / G1 / G2	NMT 4 ppb	External lab	Complies
5.2	Pesticide residues	As per USP limits	USP	Complies
5.3	Residual solvents	As per USP limits	GC-MS	Complies
6.0	MICROBIOLOGICAL ANALYSIS			
6.1	Total Plate Count	NMT 10,000 cfu/g	USP <2021>	810 cfu/g
6.2	Yeast & Mould	NMT 100 cfu/g	USP <2021>	< 10 cfu/g
6.3	Escherichia coli	Absent / 10 g	USP <2022>	Absent
6.4	Salmonella spp.	Absent / 25 g	USP <2022>	Absent
6.5	Staphylococcus aureus	Absent / 10 g	USP <2022>	Absent
6.6	Pseudomonas aeruginosa	Absent / 10 g	USP <2022>	Absent

Remarks: The product Berberine HCl 97% conforms to the above-mentioned specifications.
* The product is of herbal origin; slight colour variation may occur due to geographical and seasonal variation in the raw material.

EXTRACTION SOLVENT Water (100%)	EXTRACTION RATIO 80–100 : 1	CAS NO. 89957-84-6	PACKING 25 kg HDPE drum, two inner polybags
STORAGE Store in a cool, dry area. No freezing. Keep away from strong direct light and heat.		SANITIZATION Non-irradiated	STATUS GMO free · BSE/TSE free · Allergen free

