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IEC: ABCFG5010F · GSTIN: 09ABCFG5010F1ZU

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Technical Data Sheet

Black Cumin Seed Extract 3% Thymoquinone

Document no. GGLEPL/QAD/TDS/HU-STA-14297/01	**Issue** 01 · 08-11-2026	**Revision** 01

1. Product identification

Product name	Black Cumin Seed Extract 3% Thymoquinone
Material type	Standardised botanical extract powder
Botanical name	*Nigella sativa Linn.*
Common name	Kalonji
Plant part	Seed
Composition	Extract 95–97% w/w; maltodextrin 3–5% w/w (carrier)
Processing	Processed in India

2. Description

Appearance	Fine
Colour	Dark brown to brown, free-flowing powder
Odour	Spicy & woody

3. Specifications

Parameter	Specification	Method
Physical		
Loss on drying (105 °C)	NMT 8.0% w/w	In House
Acid-insoluble ash	NMT 1.0% w/w	In House
Total ash	NMT 5% w/w	In House
Particle size, 60–80 mesh	NLT 95%	As per USP <786>
Assay		
Thymoquinone	NLT 3.0%	HPLC/In House
Heavy metals		
Total heavy metals	NMT 10 ppm	AAS-ICP-MS
Lead (Pb)	NMT 3.0 ppm	AAS-ICP-MS
Arsenic (As)	NMT 2.0 ppm	AAS-ICP-MS
Cadmium (Cd)	NMT 1.0 ppm	AAS-ICP-MS
Mercury (Hg)	NMT 0.5 ppm	AAS-ICP-MS
Microbiology		
Total plate count	NMT 10,000 cfu/g	APHA CHP 7, FDA BAM
E. coli	Absent	AOAC 991.14
Salmonella	Absent	AOAC 991.14
Staphylococcus aureus	Absent	FDA BAM, 7th Ed
Yeast & mould	NMT 100 cfu/g	FDA BAM, 7th Ed

4. Storage, shelf life and pack sizes

Storage	Cool, dark place
Shelf life	36 months from date of manufacture under the storage conditions above
Pack sizes	25 kg

This Technical Data Sheet provides typical specifications for reference. Lot-specific results are reported on the Certificate of Analysis (COA) issued for each lot. Specifications may vary between lots and may be revised without notice. Any material difference between this TDS and the applicable COA should be clarified with Herbuno before purchase or use. Herbuno's obligation is limited to conformity of the supplied lot with its COA. The buyer is responsible for assessing suitability for the intended application and compliance with applicable regulations. NMT = not more than · NLT = not less than · cfu = colony-forming units.

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