

CERTIFICATE OF ANALYSIS

Product Name: Ashwagandha P.E. 2.5%	Country of Origin: India	Lot#: NIGWS25-2306V1026608 ✓
Botanical Name: <i>Withania somnifera</i>	Part Used: Root	Carrier: Maltodextrin
Extraction Method: Hydro-Alcoholic	Sterilization Method: Heat/Steam	Free From: GMO
Complies with USP: BSE/TSE Status	Manufacture Date: Jun 2023	Expiration Date: Jun 2026

TEST ITEMS	SPECIFICATIONS	RESULTS	TEST METHODS
Appearance	Yellow Tan to Brown Fine Dry Powder	Conforms	Visual
Taste & Odor	Characteristic	Conforms	Organoleptic
Loss on Drying	NMT 6%	3.29%	USP/Karl Fischer
Sieve Analysis	NLT 90% through 40 Mesh	99.3%	Sieve Screen
Bulk Density (Tapped)	0.20 - 1.2g/ml	0.898g/ml	USP/AOAC
Assay: Withanoloides	NLT 1.5% w/w	2.72%	Gravimetry
Assay: Alkaloids	NLT 1.0% w/w	1.10%	Gravimetry
Ratio	12:1	12:1	\
HEAVY METALS ANALYSIS			
Heavy Metals	NMT 10ppm	Conforms	ICP-MS
Lead (Pb)	NMT 2ppm	Conforms	ICP-MS
Arsenic (As)	NMT 2ppm	Conforms	ICP-MS
Cadmium (Cd)	NMT 0.5ppm	Conforms	ICP-MS
Mercury (Hg)	NMT 0.5ppm	Conforms	ICP-MS
MICROBIOLOGICAL ANALYSIS			
Total Plate Count	NMT 10,000cfu/g	Conforms	AOAC, BAM
Yeast & Mold	NMT 1,000cfu/g	Conforms	AOAC, BAM
E. Coli	Absent	Absent	AOAC, BAM
Salmonella	Absent	Absent	AOAC, BAM
Staphylococcus Aureus	Negative in 25g	Negative	AOAC, BAM

Storage	Store in a clean, cool, dry place at room temperature.
Shelf Life	Three years if sealed and stored away from direct sunlight.

Approved by: Colleen Hobough / QA Department



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