AKARALI™

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CERTIFICATE OF ANALYSIS (COA)

Physta® *Eurycoma longifolia* Standardized Extract

Batch No.	: TA 2502013	Manufacturing Date	: 2nd February 2025
Botanical Name	: *Eurycoma longifolia*	Expiry Date	: 1st February 2028
Common Name	: Tongkat Ali, Pasak Bumi, Long Jack	Part Used	: Root
Country of Origin	: Malaysia	Extraction method	: Water

Test Parameter	Specification	Result
Organoleptic		
Color	Light brown	Complies
Odor	Characteristics	Complies
Flavor	Bitter	Complies
Form/Texture	Fine Power	Complies
Extraneous Material	Free from Foreign matter	Complies
Physical Characteristics		
Moisture Content	< 8.0%	Complies (2.30%)
Average Mesh Size	90% smaller than 120 mesh	Complies
Bioactive Content		
Eurycomanone	0.8% - 1.5%	Complies (0.89%)
Total Protein	≥ 22%	Complies (36.6%)
Total Polysaccharide	≥ 30%	Complies (38.8%)
Glycosaponin	≥ 40%	Complies (46.3%)
Heavy Metal		
Lead (Pb)	< 2.0 ppm	Complies (<1.00* ppm)
Mercury (Hg)	< 0.05 ppm	Complies (<0.05* ppm)
Arsenic (As)	< 1.0 ppm	Complies (<1.00* ppm)
Cadmium (Cd)	< 0.3 ppm	Complies (<0.20* ppm)
Microbial Limit Test:		
Total Bacteria Count	< 10,000 cfu/g	Complies (150 cfu/g)
Yeast & Mould	< 100 cfu/g	Complies (<10* cfu/g)
Salmonella	Absent in 25 g	Complies (Absent)
Escherichia coli	Absent in 1 g	Complies (Absent)
Staphylococcus aureus	Absent in 1 g	Complies (Absent)
Bile-tolerant Gram-negative bacteria	< 100 cfu/g	Complies (<10* cfu/g)

*Not Detected

This is a computer generated COA, no signature required.

The above certificate of analysis contains information based on AKARALI™ suppliers COA. This information and analysis is presented in good faith, but it is not warranted as to the accuracy of results. The verification and use of the information shall be the sole responsibility or risk of the party using the information. Moreover, all information given does in no way account for changes occurring between purchase, due to natural product variations and use of raw materials, nor does it warrant any nutritionals claims. All precautionary labels and notices should be read and understood by all supervisory personnel before using. The data contained herein should not be interpreted as permission to use any existing patents or copyright.

CERTIFICATE OF ANALYSIS
SHODEN® (ASHWAGANDHA EXTRACT)

Product Name	:	Shoden® (Ashwagandha Extract)			
Product code	:	SH-PR 100 A	AN code	:	101102500
Latin Name	:	*Withania somnifera*	Batch no	:	1F1012607071
Harvest Type	:	Cultivated	Quantity	:	5 Kg
Country of Origin	:	India	Plant Part Used	:	Dried Roots & Leaves
COA No.	:	EB260700272	Mfg. Date	:	03.07.2026
COA Date	:	10.07.2026	Exp. Date	:	02.07.2028

Description	Specification	Result	Method
Physical Characteristic			
Identification	Pass	Complies	TLC
Colour	Pale brown	Complies	Visual
Appearance	Hygroscopic Powder	Complies	Visual
Flavour	Characteristic	Complies	Organoleptic
Odour	Characteristic	Complies	Organoleptic
Analytical Assay			
Herb to extract ratio	40: 1	complies	In House Specification
Solubility (in Alcohol)	Soluble	Complies	IP
(in Water)	Soluble	Complies	IP
Moisture	NMT 3%	2.32%	USP 37 ‹921›
Extraction solvent	Ethanol-water (60:40)	Complies	In House Specification
Residual solvent (Ethanol)	NMT 5000 ppm	Complies	USP‹467›
Particle Size range	100% thru 30 #	Complies	USP 37 ‹786›
Tap Density (gm/ml)	› 0.30	0.43	USP 37 ‹616›
Bulk Density (gm/ml)	› 0.15	0.26	USP 37 ‹616›
Pesticide Residue	Complies with USP	Not detected	USP 37 ‹561›
Trace Metals			
Heavy Metals	‹10 ppm	Complies	ICP-MS
Lead	‹ 3 ppm	Complies	ICP-MS
Arsenic	‹ 1 ppm	Complies	ICP-MS
Cadmium	‹ 1 ppm	Complies	ICP-MS
Mercury	‹ 0.1 ppm	Complies	ICP-MS
Microbial Assay			
Total Plate Count	‹1,000 cfu/g	100 cfu/g	AOAC, BAM
Yeast & Mould	‹100 cfu/g	‹ 10 cfu/g	AOAC, BAM
Salmonella	Absent/25 g	Complies	AOAC, BAM
E. coli	Absent/10 g	Complies	AOAC, BAM

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Description	Specification	Result	Method
Assay for Actives			
Total Withanolide glycosides	NLT 35%	35.13%	HPLC

	Prepared by	Approved by
Signature		
Name	Balakrishna Shenoi B	Krishnaveni M S
Designation	Asst. Manager- QC	Head - QC

Additional Product information

- Material is Non-ETO, Non-Irradiated, GMO-Free and BSE-TSE free
- Allergens: No Allergens
- Storage: Store in a cool, dry place and away from direct sunlight
- Kosher and Halal Certified
- Shelf life is 24 months from the date of manufacturing
- Packaging details: Primary packing -LDPE cover, Secondary packing HM-HDPE Drum
- Shoden® is patented and registered trademark of Arjuna Natural Pvt Ltd
- Heavy Metals & Pesticide residue are tested for random bulk lots once in 6 months by an external laboratory

Note: Since it is a herbal product, there is likely to be minor colour variation from batch to batch because of the seasonal variations of the raw materials. Colour change will not affect the quality and efficacy of the product

Abbreviations:
AOAC - Association of Official Analytical Chemists;
BAM - Bacteriological Analytical Manual;
USP - United States Pharmacopeia

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