

**SPECIFICATION**

**SHODEN®**



<u>Product Name</u> :	Shoden®	<u>Product code</u> :	SH-PR 100 E
<u>Latin Name</u> :	<i>Withania somnifera</i>	<u>Harvest Type</u> :	Cultivated
<u>Country of Origin</u> :	India	<u>Plant Part Used</u> :	Dried Root & Leaves

ARJUNA

Description	Specification	Method
<b>Physical Characteristic</b>		
Identification	Pass	TLC
Colour	Pale brown	Visual
Appearance	Hygroscopic powder	Visual
Flavour	Characteristic	Organoleptic
Odour	Characteristic	Organoleptic
<b>Analytical Assay</b>		
Herb to Extract ratio	40:1	In House Specification
Solubility (in Alcohol)	Soluble	IP
(in Water)	Soluble	IP
Moisture	NMT 3%	USP 37 <921>
Extraction solvent	Ethanol-water	In House Specification
Residual solvent(Ethanol)	NMT 5000 ppm	USP<467>
Particle Size range	100% thru 30 #	USP 37 <786>
Tap Density (gm/ml)	> 0.30	USP 37 <616>
Bulk Density (gm/ml)	> 0.15	USP 37 <616>
Pesticide Residue	Complies with USP	USP 37 <561>
Excipients/carrier	None	In House Specification
Benzo(a)pyrene(BAP)	<10µg/kg	UPLC-FLURO
Polycyclic aromatic hydrocarbon (sum of Benzo(a)pyrene, Benzo(a) anthracene, Benzo(b)fluoranthene, chrysene	<50µg/kg	UPLC-FLURO
<b>Trace Metals</b>		
Heavy Metals	<10 ppm	ICP-MS
Lead	< 3 ppm	ICP-MS
Arsenic	< 1 ppm	ICP-MS
Cadmium	< 1 ppm	ICP-MS
Mercury	< 0.1 ppm	ICP-MS
<b>Microbial Assay</b>		
Total Plate Count	<1,000 cfu/g	AOAC, BAM
Yeast & Mould	<100 cfu/g	AOAC, BAM
Salmonella	Absent/25 g	AOAC, BAM
E.coli	Absent/10 g	AOAC, BAM

**Assay for Actives**

**Total Withanolideglycosides**

**NLT 35%**

**HPLC**

- Shoden® is patented and registered trademark of Arjuna Natural Ltd.
- Material is NON-ETO and Non-Irradiated.
- Non GMO.
- BSE/TSE free
- Allergen free
- Star K Kosher Certified
- Storage: Store in a cool, dry place and away from direct sunlight
- Packaging : Packed in 25 kg HDPE drums or customized units

*Note: Since it is an 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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