



## FINISHED PRODUCT SPECIFICATION AND TEST PROCEDURE

## Product: KSM-66 ORGANIC ASHWAGANDHA ROOT EXTRACT

STP No.: AG-001-17 Effective date: 22.07.2025

Supersedes: AG-001-16 Review date: 21.07.2027 Page 1 of 2

S.No.	Test	Specification	Test Method
1.	<b>Description</b>	Light yellowish brown, slightly Hygroscopic powder.	In-House
2.	<b>Plant Part Used</b>	Roots	----
3.	<b>Identification</b>		
	A) By HPTLC	Should comply with the standard Reference sample.	USP<203>
	B) By HPLC	Should comply with the standard Reference sample.	In-House
4.	<b>Physico-chemical analysis</b>		
	Water content (% w/w)	< 5.0	USP <921>
	Sulfated Ash (% w/w)	< 8.0	USP <561>
	Acid insoluble ash (%w/w)	< 5.0	USP <561>
	pH of 5% w/v solution	4.0 - 6.0	USP <791>
5.	<b>Sieve Analysis</b>		
	Passing through 40 mesh Sieve	>95% (w/w)	USP <616>
	Passing through 80 mesh Sieve	>80% (w/w)	USP <616>
6.	<b>Density</b>		
	Bulk density (g/cc)	0.2 - 0.6	USP <616>
	Tapped density (g/cc)	0.4 - 0.8	USP <616>
*7.	<b>Heavy Metals</b>		
	Lead	<0.5 ppm	ICP-MS> USP <730>
	Cadmium	<0.5 ppm	
	Arsenic	<0.5 ppm	
	Mercury	<0.1 ppm	
8.	<b>Microbial Enumeration test</b>		
	Total aerobic microbial count	<10 <sup>4</sup> cfu/g	USP<2021>
	Total combined molds and yeasts count	<10 <sup>2</sup> cfu/g	USP<2021>
	Enterobacterial count (Bile-Tolerant Gram-Negative Bacteria)	<10 <sup>2</sup> cfu/g	USP<2021>

Prepared by	Reviewed by	Approved by
Sign: <i>Sany</i> Date: 22.07.2025	Sign: <i>S</i> Date: 22.07.2025	Sign: <i>P</i> Date: 22.07.2025



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	Bacillus cereus	<10 <sup>4</sup> cfu/g	ISO 7932
9	<b>Test for absence of specified Microorganisms</b>		
	Escherichia coli (1g)	Absent	USP<2022>
	Salmonella species (25g)	Absent	USP<2022>
	Coagulase -positive	Absent	USP<2022>
	Staphylococcus.aureus (1g)		
*10.	<b>Aflatoxins (B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>)</b>	< 10ppb	AOAC
<b>Pesticides residue analysis</b>			
*11.	Organochlorine pesticides	As per the limit listed in USP<561>	USP 40 <561>
	Organophosphorous pesticides		
	Organosulphur pesticides		
12.	<b>Withanolides by HPLC</b>		
	Content of Withanolides (% w/w)	> 5%	In-House
	(withaferin A) by HPLC	<0.1%	In-House

Botanical Name: *Withania Somnifera*

Extract solvent: Water

Extraction ratio: 10:1 - 15:1

LOQ - Limit of Quantification (pb-0.05ppm, Cd-0.01ppm, As-0.01ppm&amp;Hg-0.01ppm

\* This test will be conducted once in 3 months at contract testing laboratory.

The Product is tested for "GLUTEN Free" once in 3 months. The result must be Negative or &lt; 10 ppm Gluten.

<b>SAMPLE QUANTITY</b>	100 gms
<b>SHELF LIFE</b>	3 Years
<b>STORAGE CONDITIONS</b>	Preserve in well-closed containers, protected from light and moisture, and store at room temperature.
<b>PACKAGING</b>	30 Kg packed in LDPE bags inside HDPE Drum 25 Kg packed in LDPE bags inside HDPE Drum 10 Kg packed in LDPE bags inside HDPE Drum
<b>LABELLING</b>	Label includes product name, B.No., gross weight, net weight, manufacturer name, manufacturing date and retest / expiry date

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