

## CERTIFICATE OF ANALYSIS

Product: <b>Ashwagandha Extract 1.5%</b>			Report No.: <b>BMIR210386</b>	
			Date : <b>22.05.2021</b>	
			Spec No : <b>FPS/B01/0897-00</b>	
Botanical Name	Part used	Country of Origin	Batch quantity	Page No
<i>Withania somnifera</i>	Roots	India	500 kg	01/02

Batch Number	<b>BMI20210369</b>	Date of manufacture	<b>May-2021</b>
		Date of expiry	<b>Apr- 2024</b>

Parameter	Specification	Results	Protocol #
<b>Physical</b>			
Description	Light brown to dark brown color* powder with characteristic odor and taste	Complies	Organoleptic
Identification	To comply by HPLC	Complies	TM/0897
Solubility	Partially soluble in water	Complies	USP
Loss on drying	Not more than 6.0% w/w	2.14% w/w	USP <731>
Untapped bulk density	Between 0.30 to 0.60g/ml	0.55g/ml	USP <616>
Tapped bulk density	Between 0.40 to 0.80g/ml	0.71g/ml	USP <616>
<b>Particle size</b>			
40 mesh	Not less than 95% passing	Complies	USP <786>
<b>Assay</b>			
Content of Withanolids by HPLC	Not less than 1.5%	2.38%	TM/0897
<b>Heavy Metals</b>	<b>ICP-OES</b>		
Lead	Not more than 3.0ppm	Complies	USP <233>
Arsenic	Not more than 1.0ppm	Complies	USP <233>
Cadmium	Not more than 0.5ppm	Complies	USP <233>
Mercury	Not more than 0.1ppm	Complies	USP <233>
<b>Microbiological</b>			
Total plate count	Not more than 3000cfu/g	265cfu/g	USP <2021>
Total yeast and mold count	Not more than 100cfu/g	20cfu/g	USP <2021>
Escherichia coli	Negative / 10g	Negative	USP <2022>
Salmonella spp.	Negative / 10g	Negative	USP <2022>
Coliforms	Negative / 10g	Negative	USP <2021>
Staphylococcus aureus	Negative / 10g	Negative	USP <2022>
Pseudomonas aeruginosa	Negative / 10g	Negative	USP <62>

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<i>Additional information</i>	
Sanitizing treatment	Non-irradiated and not treated with ETO
Genetic Modification Status	GMO free
BSE / TSE status	BSE / TSE free
Manufactured by	Bio-Med Ingredients Ltd
Shelf life	3 years when stored in unopened original package at the recommended storage condition.
Packing	Packed in food grade polythene bag followed by 50 L HDPE Container.
Standard Pack size	25 kg in single HDPE/ Paper Container
Storage Condition	Store in dry, cool place, protected from light, heat and oxidation. The recommended storage temperature is below 30° C.

\* The product is of herbal origin. There may be minor color difference because of the geographical and seasonal variations of the plant material.

**Conclusion: This Product complies with the specifications based on the above tests conducted.**