


## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Ashwagandha Dry Extract	<b>Batch No.</b>	2442082803
<b>Botanical Name</b>	<i>Withania somnifera</i>	<b>Mfg. Date</b>	January 2025
<b>Part Used</b>	Whole Part	<b>Exp. Date</b>	December 2027

S. N.	TEST PARAMETERS	RESULTS	SPECIFICATION	METHODS
<b>A</b>	<b>PHYSICO CHEMICAL TESTS</b>			
1	Description	Light to Dark Brownish Colored Powder	Light to Dark Brownish Colored Powder	Organoleptic
2	Color	Light to Dark Brownish	Light to Dark Brownish	Organoleptic
3	Taste	Complies	Bitter less	Organoleptic
4	Odor	Complies	Characteristic	Organoleptic
5	Herb Ratio	5:1	Complies	As per I.H
6	Identification test by TLC Method	Complies	Positive	By TLC
7	pH (1% w/v of aq. Solution)	5.02	4.0 – 7.0	API
8	Moisture Content (By Oven Method)	2.94% w/w	NMT- 10.0% w/w	API
9	Menthanol Solubility (50% w/v)	92.42% w/w	NLT- 70.0% w/w	API
10	Bulk Density	0.559 gm./ml	NLT – 0.500 gm/ml	API
11	Tapped Density (After 50 Taps)	0.757 gm./ml	NLT – 0.600 gm/ml	API
12	Total Ash Content at 600°C	2.06% w/w	NMT- 20.0% w/w	API
13	Particle Size pass through 40 mesh	94.21% w/w	NLT – 90.00% w/w	API
<b>B</b>	<b>ACTIVE INGREDIENTS/ASSAY</b>			
14	Total Withanolides Content	2.61% w/w	NLT- 2.50% w/w	By G.V
<b>C</b>	<b>HEAVY METALS</b>			
15	Lead	1.00 ppm	NMT – 3.0 ppm	By ICP-MS
16	Arsenic	0.40 ppm	NMT – 2.0 ppm	By ICP-MS
17	Mercury	Not Detected	NMT – 1.0 ppm	By ICP-MS
18	Cadmium	Not Detected	NMT – 0.1 ppm	By ICP-MS
<b>D</b>	<b>MICROBIOLOGICAL TEST</b>			
19	Total Plate Count	210 cfu/gm	NMT – 1000 cfu/gm	USP<2021>
20	Total Yeast & Moulds	20 cfu/gm	NMT – 100 cfu/gm	USP<2021>
21	Escherichia coli	Absent	Absent	USP<2022>
22	Salmonella	Absent	Absent	USP<2022>
23	Total Coliforms	Absent	Absent	USP<2022>

1. Three years in original packed condition from the date of manufacturing.
2. Store at cool, dry place away from direct sunlight & moisture.
3. The material shall be fit for human consumption & complies with prescribed standards

  
 (Dr. Kalpana Katiyar)  
 Head, ATRIC