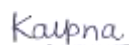


CERTIFICATE OF ANALYSIS

Product Name	Ashwagandha Semi Solid Extract	Batch No.	2442090604
Botanical Name	<i>Withania somnifera</i>	Mfg. Date	January 2025
Part Used	Dried Roots	Exp. Date	December 2027

S. N.	TEST PARAMETERS	RESULTS	SPECIFICATION	METHODS
A	PHYSICO CHEMICAL TESTS			
1	Description	Brown Colored Semi Solid Liquid	Brown Colored Semi Solid Liquid	Visually
2	Color	Brown Color	Brown Color	Visually
3	Taste	Complies	Characteristic	Visually
4	Odor	Complies	Characteristic	Visually
5	Identification test by TLC Method	Complies	Positive	API
6	pH (1% w/v of aq. Solution)	5.18	4.0 – 7.0	IS 1390: 1983
7	Brix Content	45.62% w/w	NLT- 40.0% w/w	By Refractometer Test
8	Specific gravity	1.165 gm/ml	1.00 to 1.24 gm/ml	API
9	Water Solubility	98.14% w/w	NLT- 90.00% w/w	API
10	Total Ash Content at 600°C	1.69% w/w	NMT- 20.0% w/w	API
11	Acid Insoluble Ash	0.58% w/w	NMT- 10.0% w/w	API
B	ACTIVE INGREDIENTS/ASSAY			
12	Total Withanolides Content	5.53% w/w	NLT- 5.00% w/w	By HPLC
C	LIMIT TEST			
13	Heavy Metals	Complies	NMT – 10.0 ppm	By AAS
D	MICROBIOLOGICAL TEST			
14	Total Plate Count	224 cfu/ml	NMT – 1000 cfu/ml	IS 5402 (P-I):2021
15	Total Yeast & Moulds	28 cfu/ml	NMT – 100 cfu/ml	IS 5403 :1999
16	Escherichia coli	Absent	Absent	IS 5887 (P-I):1976
17	Salmonella	Absent	Absent	IS 5887 (P-3):1999
18	Total Coliforms	Absent	Absent	IS 1622: 1981 (RA 2018)

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