

Certificate of Analysis

Expiry Date: Jan. 12, 2028
Manufacture Date: Jan. 13, 2025

Product Name	Withania Somnifera Root Extract	Batch Number	20250113
Botanical Source	<i>Withania somnifera</i>	Batch Quantity	500kg
Plant Part Used	Roots&Leaf(Dry,100%Natural)	Country of Origin	China
Excipient & Ratio	10:1	Solvents Used	Water

Analysis Items	Specifications	Results	Test Methods
Identification	Identical to R.S. sample	Identical	HPLC
Withanolides	≥2.5%	2.64%	HPLC

Physical and Chemical			
Loss on Drying	≤ 5.0%	4.88 %	USP <731>
Total Ash	≤10.0 %	4.52 %	USP <281>
Bulk density	40~60 g/100mL	53 g/100mL	USP <616>
Tap density	40~60 g/100mL	56 g/100mL	USP <616>
Sieve analysis	90 % through 80 mesh	Conforms	80 mesh
Appearance	Fine Powder	Conforms	Organoleptic
Color	Brownish yellow	Conforms	Organoleptic
Odour	Characteristic	Conforms	Organoleptic

Contaminants			
Arsenic (As)	≤ 2.0 mg/kg	Conforms	ICP-MS
Lead (Pb)	≤ 1.0 mg/kg	Conforms	ICP-MS
Mercury (Hg)	≤ 0.1 mg/kg	Conforms	ICP-MS
Cadmium(Cd)	≤ 1.0 mg/kg	Conforms	ICP-MS
Residual solvents	Meet Eur.Ph. <2.4.24>	Conforms	Eur.Ph. <2.4.24>
Pesticide Residue	Meet Eur.Ph. <2.8.13>	Conforms	Eur.Ph. <2.8.13>
Benzo(a)pyrene	≤ 10 ug/kg	Conforms	Eu. Reg 1881
Sum of B(a)P, B(a)A, B(b)F, & Chrysene	≤ 50 ug/kg	Conforms	Eu. Reg 2015

Microbiological			
Total Plate Count	≤ 1,0000 cfu/g	30 cfu/g	GB 4789.2
Mold&Yeast	≤ 1000 cfu/g	15 cfu/g	GB 4789.15
E. Coli	Negative	Conforms	GB 4789.3
Salmonella	Negative	Conforms	GB 4789.4
Staphylococcus aureus	<10 cfu/g	<10 cfu/g	GB 4789.10

Package & Storage	25kg/drum,Packed in paper-drums and two plastic-bags inside. Store in a well-closed container Keep away from strong light, heat and moisture.
Shelf Life	3 years if sealed and stored under the recommended conditions
*Non-GMO, Free of BSE, Non irradiated, No ETO treated, Negative by PSL screen test.	

Conclusion: This batch of Withania Somnifera Root Extract meets the above specification

Analyzed by: Muhammad Sesay

Checked by: 叶平

Approved by: 祝威

