

## Certificate of Analysis

Expiry Date: Nov. 15, 2027  
Manufacture Date: Nov. 16, 2024

<b>Product Name</b>	Withania Somnifera Root Extract	<b>Batch Number</b>	NY20241116
<b>Botanical Source</b>	<i>Withania somnifera</i>	<b>Batch Quantity</b>	2000kg
<b>Plant Part Used</b>	Roots(Dry,100%Natural)	<b>Country of Origin</b>	China

Analysis Items	Specifications	Results	Test Methods
Identification	Identical to R.S. sample	Identical	HPLC

### Physical and Chemical

Loss on Drying	≤ 5.0%	3.40 %	GB 5009.3
Total Ash	≤10.0 %	2.39 %	GB 5009.4
Bulk density	40~60 g/100mL	49 g/100mL	GB/T 20316.2
Tap density	60~90g/100mL	68 g/100mL	GB/T21354
Assay	Withanolides ≥5.0%	5.15%	HPLC
Sieve analysis	100 % through 80 mesh	Conforms	CP2020
Appearance	Fine Powder	Conforms	Organoleptic
Color	Brown-Yellow	Conforms	Organoleptic
Odour	Characteristic	Conforms	Organoleptic

### Contaminants

Arsenic (As)	≤ 2.0 mg/kg	Conforms	GB 5009.76
Lead (Pb)	≤ 2.0mg/kg	Conforms	GB 5009.75
Mercury (Hg)	≤ 0.1mg/kg	Conforms	GB 5009.17
Cadmium(Cd)	≤ 1.0 mg/kg	Conforms	GB 5009.15
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	Conforms	GB 4789.2
Mold&Yeast	≤ 1000 cfu/g	Conforms	GB 4789.15
E. Coli	Negative	Conforms	GB 4789.3
Salmonella	Negative	Conforms	GB 4789.4
Staphylococcus aureus	Negative	Conforms	GB 4789.10

<b>Package &amp; Storage</b>	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.
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<b>Shelf Life</b>	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

