

CERTIFICATE OF ANALYSIS

Product name:	Withania Somnifera Extract		
Plant Latin name:	<i>Withania Somnifera</i>	Ref. Standard:	In-house Standard
Used part:	Whole herb	Spec.:	2.5%
Batch Number:	20220311	Manuf. Date:	Mar. 11, 2022
Batch Size :	500kg	Expiry Date:	Mar. 10, 2024
Storage Condition:	Preserve in well-closed containers, protected from light and moisture, and store at controlled room temperature.		

Item	Method	Specification	Result
Organoleptic			
Appearance	Organoleptic	Fine Powder	Conforms
Color	Organoleptic	Dark Brown	Conforms
Odor&Taste	Organoleptic	Characteristic	Conforms
Physical & Chemical Characteristics			
Particle Size	USP<786>Sieving	95%Through 40 mesh	Conforms
Loss on Drying	USP<731>	≤8.0%	4.11%
Ash	USP<581>	≤20.0%	5.5%
pH(1% w/v solution)	USP<791>	4-7	5.87
Bulk Density	USP <616>	Actual Value	0.528g/ml
Tapped Density	USP <616>	Actual Value	0.649g/ml
Heavy metals			
	USP <231>	≤20.0ppm	Conforms
Lead(Pb)	USP<730>ICP-MS	≤2.0ppm	Conforms
Arsenic(As)	USP<730>ICP-MS	≤2.0ppm	Conforms
Mercury(Hg)	USP<730>ICP-MS	≤0.1ppm	Conforms
Cadmium(Cd)	USP<730>ICP-MS	≤0.3ppm	Conforms
Microbiological Tests			
Total plate Count	USP<2021>	≤1000cfu/g	Conform
Yeast & Mold	USP<2021>	≤100cfu/g	Conform
E.Coli.	USP<2022>	Negative	Negative
Salmonella	USP<2022>	Negative	Negative
Staphylococcus	USP<2022>	Negative	Negative
Assay			
Total withanolides	HPLC	≥2.5%	2.56%
Conclusion:	Conform to In-house standard.		

Tested by: Fangchao Yang

Approved by: Yulian Liu

