

## CERTIFICATE OF ANALYSIS

Product name:	<b>Withania Somnifera Extract</b>		
Plant Latin name:	<i>Withania Somnifera</i>	Ref. Standard:	In-house Standard
Used part:	Whole herb	Spec.:	5%
Batch Number:	20211120-3	Manuf. Date:	Nov. 20, 2021
Batch Size :	1030kg	Expiry Date:	Nov. 19, 2024
Storage Condition:	Preserve in well-closed containers, protected from light and moisture, and store at controlled room temperature.		

Item	Method	Specification	Result
<b>Organoleptic</b>			
Appearance	Organoleptic	Fine Powder	Conforms
Color	Organoleptic	Brown	Conforms
Odor&Taste	Organoleptic	Characteristic	Conforms
<b>Physical Characteristics</b>			
Particle Size	USP<786>Sieving	95%Through 40 mesh	100%
Loss on Drying	USP<731>	≤8.0%	2.48%
Ash	USP<581>	≤15.0%	9.88%
pH(1% w/v solution)	USP<791>	4-7	4.37
Bulk Density	USP <616>	Actual Value	0.52g/ml
Tapped Density	USP <616>	Actual Value	0.92g/ml
<b>Heavy metals</b>			
	USP<231>	≤20ppm	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
<b>Microbiological Tests</b>			
Total plate Count	USP<2021>	≤1000cfu/g	Conforms
Yeast & Mold	USP<2021>	≤100cfu/g	Conforms
E.Coli.	USP<2022>	Negative	Negative
Salmonella	USP<2022>	Negative	Negative
Staphylococcus	USP<2022>	Negative	Negative
<b>Assay</b>			
Total Withanolides	HPLC	≥5%	5.19%
Conclusion:	Conform to In-house standard		

Tested by: Fangchao Yang

Approved by: Yulian Liu

