

CERTIFICATE OF ANALYSIS

Andrographis paniculate extract 4:1

Batch Number: 030635200319

Manufacture Date: Mar 19, 2020

Expiry Date: Mar 18, 2022

General Information			
Part used	Leaf	Solvents used	Water and ethanol
<i>Botanical source</i>	<i>Andrographis Paniculata</i>	Country of origin	China
Items	Specification	Methods	Results
Physical & chemical			
Color	Brown	Organoleptic	Conform
Odor	Characteristic	Organoleptic	Conform
Appearance	Fine powder	Organoleptic	Conform
Analytical quality			
Identification	Identical to R.S. sample	HPTLC	Identical
Sieve analysis	100% through 80 mesh	USP<786>	Conform
Loss on drying	≤5.0%	Eur.Ph.7.0 [2.8.17]	3.64%
Total ash	≤10.0%	Eur.Ph.<2.4.16>	2.66%
Bulk density	40~60g/100mL	Eur.Ph.<2.9.34>	Conform
Tap density	60~90g/100mL	Eur.Ph.<2.9.34>	Conform
Extract ratio	4:1	--	Conform
Contaminants			
Lead (Pb)	≤3.0mg/kg	Eur.Ph.<2.2.58>ICP-MS	<1mg/kg
Arsenic (As)	≤2.0mg/kg	Eur.Ph.<2.2.58>ICP-MS	<1mg/kg
Cadmium (Cd)	≤1.0mg/kg	Eur.Ph.<2.2.58>ICP-MS	<0.1mg/kg
Mercury (Hg)	≤0.1mg/kg	Eur.Ph.<2.2.58>ICP-MS	<0.1mg/kg
Solvents residue	Meet Eur.Ph.7.0<5.4>	Eur.Ph.<2.4.24>	Conform
Pesticides residue	Meet USP Requirements	USP36<561>	Conform
Microbiological			
Total plate count	≤1000cfu/g	USP<2021>	<1000cfu/g
Yeast & mold	≤100cfu/g	USP<2021>	<100cfu/g
E. Coli.	Negative	USP<2022>	Negative
Salmonella	Negative	USP<2022>	Negative
General Status			
Non-Irradiation	≤700	EN13751:2002<PSL>	Conform

Conclusion: Qualified