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## CERTIFICATE OF ANALYSIS

### Griffonia Seed Extract Powder 5-Hydroxytryptophan (5-HTP) 98%HPLC

Lot Number: HTP-150503    Manufacture Date: 2015/05/19    Expiry Date: 2017/05/18

<b>General Information</b>			
Part Used	Seeds	Solvents Used	Water/Ethanol
Botanical Source	<i>Griffonia simplicifolia</i>	Country Of Origin	China
ITEMS	SPECIFICATION	METHOD	TEST RESULTS
<b>Physical&amp;Chemical Data</b>			
Color	Light Yellow	Organoleptic	Conform
Odor	Characteristic	Organoleptic	Conform
Appearance	Fine Powder	Organoleptic	Conform
<b>Analytical Quality</b>			
Identification	Identical to R.S. sample	HPTLC	Identical
5-Hydroxytryptophan	≥20.0%	HPLC	20.8%
Sieve analysis	100% through 80 mesh	USP34<786>	Conform
Loss on Drying	≤5.0%	Eur.Ph.7.0 [2.8.17]	2.7%
Total Ash	≤10.0%	Eur.Ph.7.0 [2.4.16]	2.3%
<b>Contaminants</b>			
Lead (Pb)	≤3.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Arsenic (As)	≤2.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Cadmium (Cd)	≤1.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Mercury (Hg)	≤0.1 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Solvents Residue	Meet Eur.Ph.7.0 <5.4>	Eur.Ph 7.0<2.4.24>	Conform
Pesticides Residue	Meet USP Requirements	USP34 <561>	Conform
<b>Microbiological</b>			
Total Plate Count	≤1000 cfu/g	USP34 <61>	Conform
Yeast & Mold	≤100 cfu/g	USP34 <61>	Conform
E.Coli.	Negative	USP34 <62>	Conform
Salmonella	Negative	USP34 <62>	Conform
<b>General Status</b>			
<b>Packing&amp;Storage</b>	Packed in paper-drums and two plastic-bags inside. N.W:25kgs. Store in a well-closed container Away from moisture, light, oxygen.		
<b>Shelf life</b>	24 months under the conditions above and in its original packaging.		
<b>Remarks</b>	Non-GMO, Non-Allergen		

Analytical Laboratory Manager:

王海

Date: 2015.05.25

