CERTIFICATE OF ANALYSIS

Product Name	Griffonia Seed Extract(5-HTP)	Plant Part	Seeds
Botanical Source	Griffonia simplicifolia	Production Date	July 03, 2016
Batch No	20150703	Analysis Date	July 03, 2016
Quantity	1.0Kg	Expire Date	July 02, 2018

Items	**Specifications**	**Results**
Appearance	Off-white Crystalline Powder	Conforms
Assay	5-HTP ≥ 98% (HPLC)	99.1%
Peak X	Free	Conforms
Specific Rotation	-30° ~ -35°	-32.5°
Solubility	Slightly soluble in water	Conforms
Loss on Drying	≤ 1%	0.30%
Ash	≤ 1%	0.12%
Heavy Metals	≤ 10 ppm	Conforms
Arsenic	≤ 2 ppm	Conforms
Lead	≤0.5 ppm	Conforms
Pesticide Residue		
666(BHC)	≤0.1ppm	Conforms
DDT	≤0.1ppm	Conforms
PCNB	≤0.1ppm	Conforms
Aldrin	≤0.01ppm	Conforms
Microbial Analysis		
Total Plate Count	< 1000 cfu/g	Conforms
Fungi	< 100 cfu/g	Conforms
Escherichia Coli	Negative	Conforms
Salmonella	Negative	Conforms
Package	25kg/drum	
Storage	2years,if store in a cool, dry place and keep away from direct strong light in original intact packaging	

Certificate Of Analysis

Items	Specification	Results
Appearance	White crystalline powder	Qualified
Assay	>98% HPLC	99.6%
Solubility	Freely soluble in water,almost non soluble in 95% ethanol.aether or chloroform	0.24%
Identification A	Substance is solved in water,adding nitroprussid sodium solution and hydroxide sodium solution, intense crimson color is emerged.	Qualified
Identification B	Substance is solved in water,adding 10% lead acetate solution,yellow residue is formed	Qualified
Identification C	Substance shows reaction to sodium	Qualified
Solution color	Solution of 0.7g of substance in 10ml of water has be colorless	Qualified
Loss on dry	< 1.0%	0.4%
Heavy metal	Pb < 20ppm Zn < 20ppm	5.9ppm 13ppm
Residual solvent	Ethanol <0.5% Aetic acid <0.5%	0.03% 0.05%
Microbial quality	Total number of vital aerobic microorganism in 1.0g is allowed : not more than 100 bacterium and fungus totally.Escherichia coli, pseudomonas aeruginosa and staphylococcus aureus is not allow in 1.0g	Qualified
Conclusion	Meets the USP38 Standards	

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