



**BannerBio Nutraceuticals Inc.**

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## CERTIFICATE OF ANALYSIS

<b>Product Name:</b> Griffonia Seed Extract		<b>Product Code:</b> 11011	
<b>Botanical Source:</b> <i>Griffonia simplicifolia</i>		<b>Plant Part:</b> Seed	
<b>Extraction Solvents:</b> Water & Ethanol		<b>Country of Origin:</b> China	
<b>Batch No:</b> 151014-1		<b>Production Date:</b> Oct. 14, 2015	
<b>Batch Quantity:</b> 500 kg		<b>Expiry Date:</b> Oct. 13, 2017	
Items	Specifications	Results	Methods
Appearance	White to Off-white Powder	White to Off-white Powder	Visual
Particle Size	100% Pass 80 Mesh	100% Pass 80 Mesh	CP2010
Identification	Confirm	Confirm	HPLC
5-HTP	≥ 99.0 %	99.3 %	HPLC
Peak X	Free	Free	HPLC
Loss on Drying	≤ 1.0 %	0.5 %	CP2010
Total Ash	≤ 1.0 %	0.1 %	CP2010
Bulk Density	≥ 0.3 g/ml	0.36 g/ml	USP35
Residual Solvents	< 50 ppm	Confirm	USP35
Heavy Metals	≤ 10 ppm	< 10 ppm	USP35
Arsenic	≤ 0.5 ppm	< 0.01 ppm	USP35
Lead	≤ 0.5 ppm	< 0.01 ppm	USP35
Mercury	≤ 0.5 ppm	< 0.01 ppm	USP35
Cadmium	≤ 0.5 ppm	< 0.01 ppm	USP35
<b>Microbial Analysis</b>			
Total Plate Count	≤ 1000 cfu/g	< 10 cfu/g	CP2010
Yeast and Mold	≤ 100 cfu/g	< 10 cfu/g	CP2010
Escherichia Coli.	Negative	Negative	CP2010
Salmonella	Negative	Negative	CP2010
<b>Package &amp; Storage</b>			
Package	25 kg/drum	Shelf Life	Two Years
Storage	Store in a Cool, Dry Place and Keep Away from Direct Light.		
<b>Remarks</b>	*Non-Irradiation	* No ETO Treatment	* No Excipient

Reported by 朱玲玲

Approved by 朱玲玲