



宁波天宏生物科技有限公司

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CERTIFICATE OF ANALYSIS

Product Name: Grape Seed Extract	Batch Quantity: 800kg
Botanic Name: <i>Vitis vinifera</i> L.	Batch Number: GSE201407-03
Plant part: Seed	Analysis Date: July 20, 2014
Date of production: July 18, 2014	Date of Expiration: July 17, 2016

ITEMS	SPECIFICATION	RESULTS/METHOD
Appearance	Fine Reddish Brown Powder	Complies, visual
Odor	Characteristic	Complies, organoleptic
Taste	Astringent and Bitter	Complies, organoleptic
Type of extract	Solvent extraction	100% Water
Proanthocyanidins	≥95%	95.5%, UV (Beta-smith)
Loss on drying	≤5%	3.72%, 5g / 105°C / 2hrs
Ashes	≤5%	2.21%, 2g / 525°C / 3hrs
Bulk Density	35~60g/100ml	Complies, Density meter
Particle Size	100% through 60 mesh	Complies, Mesh sieve
PH value	4.5~6.5	6.2
Heavy Metals	≤10ppm	Complies, GB/T5009.74-2003
Lead (Pb)	≤1ppm	Complies, GB5009.12-2010
Arsenic (As)	≤0.2ppm	Complies, GB/T5009.11-2003
Cadmium (Cd)	≤0.2ppm	Complies, GB/T5009.15-2003
Mercury (Hg)	≤0.1ppm	Complies, GB/T5009.17-2003
Total Plate Count	≤1000CFU/G	Complies, GB/T4789.2-2010
Yeast and mould	≤100 CFU/G	Complies, GB/T4789.15-2010
<i>E. coli</i> .	Negative	Complies, GB/T4789.38-2012
Salmonella	Negative	Complies, GB4789.4-2010
<i>S.aureus</i>	Negative	Complies, GB4789.10-2010
Shelf life	2 years if sealed and store away from direct sun light	

Analyzer: Yang Yan

Checker: Liu Tao

Supervisor: Zhang Ming