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Certificate Of Analysis

Product Name: Sophora Japonica Extract Botanical source: Sophorae Japonica Report Date: June 15, 2013 Expiry Date: June 09, 2015 Kosher: Kof-K ID :K-0000657		Part of plant used: Flower Catalog No.: P-102A Product Name: Quercetin anhydrous Lot No.: 1307362	
TEST	SPECIFICATION	RESULTS	Test Method
Appearance	Yellow powder	Complies	Visual
Identification	Must positive	Positive	Infrared Absorption
Melting point	305°C—315°C	311°C	Melting point Apparatus
Solubility	1g in 290ml anhydrous ethanol, or 23ml of glacial acetic acid; yellow alkaline solution; almost insoluble in water; very bitter taste in ethanol.	Complies	Visual
Particle size	95% pass through Sieve#80 mesh	Complies	US Screen
Reducing sugars	Not be detected	Not detected	Chemical reaction
Sulfate	≤1000ppm	<1000ppm	AJ192
Chloride	≤1000ppm	<1000ppm	AJ192
Bulk density	≥0.20gm/cc	0.27gm/cc	CP2010
Tapped Density	≥0.30gm/cc	0.34gm/cc	CP2010
Heavy metals	≤10ppm	<10ppm	Visual Colorimetry
-Arsenic	≤1ppm	<1ppm	AAS
-Mercury	≤0.1ppm	<0.1ppm	AAS
-Cadmium	≤1ppm	<1ppm	AAS
-Lead	≤3ppm	<3ppm	AAS
Sulphated Ash	≤0.30%	0.12%	CP2010
Loss on drying	≤4.0%	2.43%	120°C
Assay by HPLC	≥95.0%	95.38%	HPLC
Microbiological test:			
Total plate count	≤1000cfu/g	100 cfu/g	AOAC966.23
Mildew & Yeast	≤100cfu/g	20 cfu/g	FDABAM8 th
E.Coli	Negative	Negative	FDABAM8 th
Salmonella	Negative	Negative	FDABAM8 th
Coliforms	≤10cfu/g	<10cfu/g	AOAC911.14
Residual Solvent	Meets the requirements of USP.		
Pesticide Screen	Meets the Requirements of USP.		
GMO/BSE Status	Not genetically modified organism. Free of BSE.		
Storage	Store in tight containers, in a cool dry area.		

Conclusion: Conform with specifications