

CERTIFICATE OF ANALYSIS

Product and Batch Information

Product Name:	Grapefruit Extract
Botanic Name:	Citrus paradisi
Plant Part:	Fruit (Dried, 100% Natural)
Batch:	GFES98-091223
Extract Ratio:	Approx. 50 to 1 extract
Analysis:	400Kg/16 drums

Analysis Item

Specification

Active Ingredients

Assay	NLT 98% Naringenin
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Physical Control

Identification	Positive
Appearance	Fine powder
Color	Off white
Odor	Characteristic
Taste	Characteristic
Sieve Analysis	100% pass 80 mesh
Solubility	Partially soluble in hydro-alcoholic solution
Loss on Drying	5% Max
Ash	5% Max
Sterilisation Method	High Temperature & High Pressure
GMO Status	GMO Free

Chemical Control

Sulphate	0.5% Max
Arsenic (As)	NMT 2ppm
Cadmium(Cd)	NMT 1ppm
Lead (Pb)	NMT 2ppm
Chlorate (Cl)	NMT 1ppm
Phosphate Organics	NMT 1ppm
Heavy Metals	10ppm Max
Pesticides Residues	NMT 1ppm

Microbiological Control

Total Plate Count	1000cfu/g Max
P.aeruginosa	Absent
S. aureus	Absent
Salmonella	Absent
Yeast & Mold	50cfu/g Max
E.Coli	Negative
Staphylococcus	Negative
Aflatoxins	NMT 0.2ppb

Packing and Storage

Packing	Pack in paper-drums and two plastic-bags inside.
Storage	Store in a well-closed container away from moisture
Shelf Life	2 years if sealed and store away from direct sun light
Expiration Date	December 22, 2011.
MANUFACTURER	

This C of A format refer to 1999 National Nutrient

Analyst:

QC manager:

LYSIS

Country of Origin:	P.R. China
Type of extraction:	Water/ Grain Alcohol
Active Ingredient:	Naringenin
Manufacture Date	December 23, 2009.
Analysis Date	December 23, 2009.
Report Date	December 28, 2009.

Result	Test Method
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98.21%	HPLC
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Conforms	TLC
Complies	Visual
Complies	Visual
Complies	Organoleptic
Conforms	Organoleptic
Complies	80 Mesh Screen
Conforms	Visual
0.95%	5g / 105C /5hrs
0.66%	2g / 525C / 5hrs

ssure for short time (5'' – 10'')(Free from Gamma Irradiation).

Conforms	/
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Complies	2g / 525C / 5hrs
Conforms	Atomic Absorption
Conforms	Atomic Absorption
Conforms	Atomic Absorption
Conforms	Atomic Absorption
Conforms	Gas Chromatography
Complies	Atomic Absorption
Conforms	Gas Chromatography

50cfu/g	
O.K.	
O.K.	
O.K.	
10cfu/g	
Negative	
Conforms	
Absent	HPLC

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QA Manager: