

stevia

CERTIFICATE OF ANALYSIS (Stevioside)

LATIN NAME:
Stevia rebaudiana Bertoni

COMMON NAME:
Stevioside

Lot Number:
20111113

ORIGIN:
China

PLANT PART USED:
Leaves

MFG Date:
11/2011

Product Code:
SR025EPXI

Physical Characteristic	Specification	Test Method	Results
Identification	Positive	TLCID (JECFA ¹)	Complies
Plant part used	Leaves	Visual	Complies
Appearance	Fine Powder	Visual	Complies
Color	Pure White	Visual	Complies
Odor	Characteristic	Organoleptic	Complies
Taste	Sweet	Organoleptic	Complies
Bulk density	0.25 - 0.35 gr/ml	/	Complies
Mesh size	NLT 95% thru 80 Mesh	80 Mesh screen	Complies

Chemical Analysis	Specification	Test Method	Results
Assay			
a. Total Steviol glycosides	≥ 95%	HPLC/UV ³	95.00%
b. Rebaudioside A	≥ 25%	HPLC/UV ³	32.90%
pH	4.5 - 7.0	1% in water (JECFA ¹)	Complies
Solubility	Good in water	Visual	Complies
Moisture Content	≤ 6%	105°C /16h (JECFA ²)	1.60%
Ash Content	≤ 1%	550°C /3h (JECFA ²)	0.09%
Carrier	None	-	Complies
Melting Point	198-202°C	Visual	Complies
Extract Solvents	Ethanol and Water	-	Complies
Ethanol	≤ 5.000mg/kg	GC (JECFA ²)	Complies

Impurities	Specification	Test Method	Results
Total heavy metals	≤ 10ppm	Photometric (FCC 7 ⁴)	Complies
Lead	≤ 1ppm	ICP-MS/AAS (JECFA ²)	≤ 0.05 ppm
Arsenic	≤ 1ppm	ICP-MS/AAS (JECFA ²)	≤ 0.1 ppm
Cadmium	≤ 1ppm	ICP-MS/AAS (JECFA ²)	≤ 0.01 ppm
Mercury	≤ 1ppm	AAS (JECFA ²)	≤ 0.01 ppm
Pesticides Residues	≤ Regulation EU 396/2005	ASU §64 LFGB (GCMS + LCMS)	Complies

Microbiology	Specification	Test Method	Results
Total plate count	≤ 1,000 cfu/g	EN ISO 4833-M	≤ 10 cfu/g
Yeast & mold	≤ 100 cfu/g	ISO 21527-2-M	≤ 100 cfu/g
Escherichia coli	Negative/g	37 °C, EN ISO 16649-2-M	n.d.
Salmonella	Negative/25g	EN ISO 6579-M	n.d.
Staphylococcus	Negative/g	EN ISO 6888-1-M	n.d.

JECFA¹: JECFA(2006) Combined compendium of food additive specifications. Vol 4, FAO JECFA monographs 1

JECFA²: JECFA(2008) Compendium of food additive specifications. FAO JECFA monographs 5

HPLC/UV³: Steviol glycoside monograph prepared at 73rd JECFA (2010) and published in FAO JECFA Monographs 10 (2010)

FCC 7⁴: Food Chemical Codex (FCC) 7th Edition, The US Pharmacopoeial Convention, Rockville, 2010

Shelf Life: 36 months from date of manufacture
Storage: Keep away from sunlight and moisture