

PURECIRCLE SDN BHD (578803-K)

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CERTIFICATE OF ANALYSIS

NAME OF PRODUCT:	Rebaudioside X (CAS #1220616-44-3)
BATCH #:	PT110212
MANUFACTURING DATE:	21st May 2012
SHELF LIFE:	2 years from manufacturing date
MANUFACTURING CONDITIONS:	GMP (ISO 22,000:2005/22,002-1:2009)
STORAGE CONDITIONS:	Cool, dry and ventilated area

PARAMETER	METHODS	SPECIFICATION	RESULT
Appearance	Sensory Evaluation	White to off-white powder	Approved
Taste and Odor	" "	Clean sweet taste with no abnormal odor	Approved
Absorbance, (370nm)	GB 8270-1999	≤0.1	0.013
Total Steviol Glycosides, % (anhydrous basis)	JECFA, 2010*	≥95.0	99.41
Rebaudioside X, % (anhydrous basis)	" "	≥51.0	96.23
Loss on Drying, %	JECFA Vol.4	≤6.0	3.06
Solubility	" "	Sparingly soluble in water and ethanol	Passed
pH, 1% solution	" "	4.5 - 7.0	5.87
Residual Ethanol, %	USP<467>	<0.30	0.085
Residual Methanol, %	" "	<0.02	0.007
Ash, %	JECFA Vol.4	<1.0	0.13
Lead (as Pb), ppm	AOAC 993.14	<1.0	0.250
Arsenic (as As), ppm	" "	<1.0	0.007
Cadmium (as Cd), ppm	" "	<1.0	<0.005
Mercury (as Hg), ppm	" "	<1.0	<0.005
Total Plate Count, CFU/g	AOAC 966.23	<1000	Not Detected
Yeast, CFU/g	AS 1766.2.2	Not Detected	Not Detected
Mold, CFU/g	" "	Not Detected	Not Detected
Total Coliforms, MPN/g	BS 5763:PART 3/ISO 4831	Not Detected	Not Detected
E.coli count, MPN/g	BS 5763:PART 8/ISO 7251	Not Detected	Not Detected
Thermophilic acidophilic bacteria, CFU/g	JFJA 2007**	Not Detected	Not Detected
Guaiacol producing bacteria, CFU/g	" "	Negative in 1g	Negative
S.aureus, CFU/g	Chapter 12, FDA	Not Detected	Not Detected
Salmonella sp.	BS 5763:PART 4/ISO 6579	Absent in 25g	Absent
Listeria	Chapter 10, FDA	Absent in 25g	Absent
Particle size, % (through US mesh #20)	Sieve Analysis	>95	Passed

* "Steviol Glycosides" specification of FAO JECFA Monographs 10 (2010) + Rebaudioside X

**United Test Methods for Bacilli, Japan Fruit Juice Association, Jan-2007

Prepared by:

Quality Assurance Department
Date: 26th February 2013

Reviewed by:

Quality Assurance Department
Date: 26th February 2013