

PT 23419, Lengkok Teknologi, techpark@enstek,  
71760 Bandar ENSTEK  
Negeri Sembilan, Malaysia  
Tel: +606-798 7300 • Fax: +606-791 3333  
E-mail: office@purecircle.com

## CERTIFICATE OF ANALYSIS

<b>NAME OF PRODUCT:</b>	<b>Rebaudioside X (CAS #1220616-44-3)</b>
<b>BATCH #:</b>	<b>PT100412</b>
<b>MANUFACTURING DATE:</b>	<b>8<sup>th</sup> May 2012</b>
<b>SHELF LIFE:</b>	<b>2 years from manufacturing date</b>
<b>MANUFACTURING CONDITIONS:</b>	<b>GMP (ISO 22,000:2005/22,002-1:2009)</b>
<b>STORAGE CONDITIONS:</b>	<b>Cool, dry and ventilated area</b>

PARAMETER	METHODS	SPECIFICATION	RESULTS
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	0.012
Total Steviol Glycosides, % (anhydrous basis)	JECFA, 2010*	≥95.0	99.61
Rebaudioside X, % (anhydrous basis)	" "	≥51.0	96.45
Loss on Drying, %	JECFA Vol.4	≤6.0	3.46
Solubility	" "	Sparingly soluble in water and ethanol	Passed
pH, 1% solution	" "	4.5 - 7.0	4.97
Residual Ethanol, %	USP<467>	<0.30	0.084
Residual Methanol, %	" "	<0.02	0.007
Ash, %	JECFA Vol.4	<1.0	0.6
Lead (as Pb), ppm	AOAC 993.14	<1.0	0.300
Arsenic (as As), ppm	" "	<1.0	0.014
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	20
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 Method [REDACTED] Bacilli, Japan Fruit Juice Association, Jan-2007 [REDACTED]

Prepared by: [REDACTED]

Quality Assurance Department

Date: 26<sup>th</sup> February 2013

Reviewed by: [REDACTED]

Quality Assurance Department

Date: 26<sup>th</sup> February 2013