



Oxi-fend®

PRODUCT SPECIFICATION

Oxi-fend®
beranza
New Zealand Boysenberry Extract

Product Description		Oxi-fend® Beranza boysenberry extract – water	
Extract from:	Botanical name	<i>Rubus ursinus</i>	
	Other name	Boysenberry	
	Plant part	Fruit	
	Source	Commercial – GMO free	
	Origin	Nelson, New Zealand	
	Identification	HPLC	
Extract Ratio (fruit: powder)		200:1	
Preparation		Wash, extract, concentrate, freeze dry	
Solvent used		Water	
Shelf life		24 months	
Storage		In a cool, dry place away from light	
Packing		In 10kg cardboard boxes, foil lined	

Test	Specifications	Method
Appearance	Dark purple	Visual
Taste	Mildly astringent	Sensory evaluation
Odour	Mild berry aroma	Sensory evaluation
Active ingredients:		
Total Phenolic	>150 mg/g, consisting of: Ellagitannins > 16 mg/g Anthocyanin > 3.5 mg/g	Folin AOAC 15 th Ed 952.03 HPLC HPLC
Antioxidant activity:		
ORAC	>4100 µmol Trolox Equivalents/g	ORAC
Cell protection assay	<5 µg/ml	EC50, human monocyte protection
Mesh size	95% through 40 mesh	Screen
Loss on drying	< 5%	AOAC 12 th Edn 950.26 Mod
Pesticides residue	Nil detect for the residues of 200 commonly used agrichemicals.	GC-ECD/NPD confirmed by GC-MS
Total heavy metals	< 1.0 ppm	AOAC 935.13 mod/APHA 3120B Acid dig. ICP-OES
Arsenic	< 2.0 ppm	AOAC 935.13 mod/APHA 3120B Acid dig. ICP-OES
Solubility in water	100%	Visual
Total plate count	< 100/g	Compendium 4 th Edn 2001
Moulds	< 200/g	Compendium 4 th Edn 2001
Yeasts	< 200/g	Compendium 4 th Edn 2001
<i>E. Coli</i>	Nil	Compendium 4 th Edn 2001
<i>Salmonella</i>	Nil	Compendium 4 th Edn 2001
<i>Pseudomonas</i>	Nil	Compendium 4 th Edn 2001
Faecal coliforms	Nil	Compendium 4 th Edn 2001
<i>Staphylococcus aureas</i>	Nil	Compendium 4 th Edn 2001

Authorised by: Glenn Vile (PhD) (Quality Assurance)	Checked by: Bruce Cardwell (General Manager)
Signature: 	Signature: 
Date: 25 th January 2008	Date: 25 th January 2008

