



# Oxi-fend®

## PRODUCT SPECIFICATION

**Oxi-fend®**  
vinanza  
New Zealand Grape Seed Extract

<b>Product Description</b>	<b>Oxi-fend® Vinanza grape seed extract – water</b>
Extract from:	Botanical name <i>Vitis vinifera</i>
	Other name Grape
	Plant part Seed
	Source Commercial – GMO free
	Origin Marlborough, New Zealand
	Identification HPLC
Extract Ratio (seed:powder)	120:1
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	Specification	Method
Appearance	Reddish/brown fine powder	Visual
Taste	Astringent	Sensory evaluation
Odour	Light aromatic	Sensory evaluation
Active ingredients	> 450 mg/g phenolic material consisting of:	Folin AOAC 15 <sup>th</sup> Ed 952.03
(typical analysis)	360 mg/g oligomeric proanthocyanidins (OPC)	HPLC
	54 mg/g epicatechin	HPLC
	36 mg/g epigallocatechin	HPLC
Antioxidant activity: ORAC	> 11,500 µmol Trolox Equivalents/g	ORAC
Cell protection assay	<9 µg/ml	EC50, human monocyte protection
Mesh size	95% through 40 mesh	Screen
Loss on drying	< 5%	AOAC 12 <sup>th</sup> Edn 950.26 Mod
Pesticides residue	Nil detect for the residues of 200 commonly used agrichemicals.	GC-ECD/NPD confirmed by GC-MS
Heavy metals	< 1.0 ppm	AOAC 935.13 mod/APHA 3120B Acid dig. ICP-OES
Arsenic	< 2 ppm	AOAC 935.13 mod/APHA 3120B Acid dig. ICP-OES
Solubility in water	100%	
Total plate count	< 100/g	Compendium 4 <sup>th</sup> Edn 2001
Yeast and mould	< 500/g	Compendium 4 <sup>th</sup> Edn 2001
<i>E. Coli</i>	Nil	Compendium 4 <sup>th</sup> Edn 2001
<i>Salmonella</i>	Nil	Compendium 4 <sup>th</sup> Edn 2001
<i>Pseudomonas</i>	Nil	Compendium 4 <sup>th</sup> Edn 2001
Faecal coliforms	Nil	Compendium 4 <sup>th</sup> Edn 2001
<i>Staphylococcus aureas</i>	Nil	Compendium 4 <sup>th</sup> Edn 2001

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

