



# OXIFEND® BOYSENBERRY EXTRACT

## PRODUCT SPECIFICATION

Product: **Oxifend Boysenberry Extract**  
 Product code: XBY  
 Country of origin: New Zealand (raw material and manufacture)  
 Product description: Oxifend® Boysenberry Extract is a high quality extract of sustainably grown New Zealand boysenberries. A deep red/black free flow powder high in natural phenolics (anthocyanins), manufactured using New Zealand Extracts unique 100% Aqua Pure® extraction process.  
 Botanical description: *Rubus ursinus*  
 Other name: boysenberry  
 CAS number: boysenberry has no CAS number and is a hybrid of raspberry (84929-76-0) and blackberry (73049-50-0).  
 Plant part: whole fruit, skins and seeds  
 Solvent: potable water  
 Equivalence: fruit:extract 200:1  
 Plant preparation: wash, extract, concentrate, freeze-dry  
 Excipient: none  
 GMO: non-GMO  
 Minimum recommended dosage: 500 mg per serve

### Physical, analytical and microbiological detail

Test	Specification	Method
Appearance	Deep red / black fine powder	Visual
Taste	Astringent	Sensory evaluation
Odour	Light berry	Sensory evaluation
Active ingredients	> 150 mg/g phenolics	AOAC 952.03 OMA online (mod)
Mesh size*	> 95% through 40 mesh	Pass
Loss on drying	< 5%	BP or USP loss on drying method
Water activity	< 0.25	AquaLab Operator's manual
Pesticides residue	Complies with MRL limits for markets as specified by MPI managed database when read in conjunction with independent laboratory pesticide test results	Solvent extraction, SPE cleanup, GC-MS/MS and LC-MS/MS analysis <a href="https://www.mpi.govt.nz/resources-and-forms/registers-and-lists/maximum-residue-levels-database/">https://www.mpi.govt.nz/resources-and-forms/registers-and-lists/maximum-residue-levels-database/</a>
Lead (Pb)	< 3.0 ppm	Biological materials digestion ICP-MS
Mercury (Hg)	< 0.1 ppm	Biological materials digestion ICP-MS
Arsenic (As)	< 3.0 ppm	Biological materials digestion ICP-MS
Cadmium (Cd)	< 1.0 ppm	Biological materials digestion ICP-MS
Solubility in water	> 95%	In-house method
Aerobic Plate Count	< 2,000 cfu/g	APHA 8.72 5th Ed
Yeasts and molds	< 2,000 cfu/g	APHA 21.5 (modified) 5th Ed
<i>Escherichia coli</i>	Negative/10g	APHA 9.93 (modified) 5th Ed
<i>Salmonella</i>	Negative/10g	ISO 6579-1:2017
<i>Staphylococcus aureus</i>	Negative/10g	APHA 39.6 (modified) 5th Ed
Shelf Life	24 months (2 years unopened)	
Packing	2 x 10 kg, total net 20 kg, heat sealed, nitrogen flushed, foil laminate bags within individual cartons and then packed together in a heavy-duty cardboard outer.	
Storage	In a cool, dry place away from light	
Certification	Kosher certification is available on request	

**Date of Issue:** 21st November 2023

**Replaces:** 21st September 2023