



OXIFEND® RED GRAPE SKIN EXTRACT

PRODUCT SPECIFICATION

Product: **Oxifend Red Grape Skin Extract**
 Product code: XRG
 Country of origin: New Zealand (raw material and manufacture)

Product description: Oxifend® Red Grape Skin Extract is a high-quality extract from unfermented New Zealand grown Pinot noir grape skins. A deep red/purple free flow powder high in natural phenolics, manufactured using New Zealand Extracts unique 100% Aqua Pure® extraction process.

Botanical description: *Vitis vinifera*
 Other name: grape
 CAS number: 84929-27-1
 Plant part: skin
 Solvent: potable water
 Equivalence: skin:extract 400:1
 Plant preparation: wash, extract, concentrate, freeze-dry
 Excipient: none
 GMO: non-GMO
 Minimum recommended dosage: 250-500 mg per serve

Physical, analytical and microbiological detail

Test	Specification	Method
Appearance	Reddish / purple fine powder	Visual
Taste	Astringent	Sensory evaluation
Odour	Light berry / grape aromatic	Sensory evaluation
Active ingredients	> 350 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 https://www.mpi.govt.nz/resources-and-forms/registers-and-lists/maximum-residue-levels-database/
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	

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Replaces: 21st September 2023