



DIGESTEN® KIWIFRUIT SKIN EXTRACT

PRODUCT SPECIFICATION

Product:	Digesten Kiwifruit Skin Extract
Product code:	XKS
Country of origin	New Zealand (raw material and manufacture)
Product description	Digesten® is a water-soluble extract prepared using New Zealand Extracts unique 100% Aqua Pure® extraction process from mature kiwifruit skins. This uniquely functional ingredient is light fawny brown in colour, sweet yet mildly astringent in taste, and has no offensive flavours or odours.
Botanical description:	<i>Actinidia deliciosa</i>
Other name:	kiwifruit
CAS number:	kiwifruit 92456-63-8
Plant part:	skin
Solvent:	potable water
Equivalence:	skin:extract 50:1
Plant preparation:	wash, extract, concentrate, freeze-dry
Excipient:	none
GMO:	non-GMO
Minimum recommended dosage:	2-2.5% finished product (topical) / 250-500mg per serve (oral)

Physical, analytical and microbiological detail

Test	Specification	Method
Appearance	Light brown fine powder	Visual
Taste	Mildly astringent	Sensory evaluation
Odour	Light aromatic	Sensory evaluation
Active ingredients	> 30 mg/g phenolics	AOAC 952.03 OMA online (mod)
Soluble dietary fibre	> 300 mg/g	AOAC985.29 OMA online
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	
Certification	Kosher certification is available on request	

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