Digesten[®] DIGESTIVE HEALTH

```
new zealand extracts ltd
```

DIGESTEN® KIWIFRUIT COMPLEX

PRODUCT SPECIFICATION

	TROBBET SI EEITIEATION	
Product:	Digesten Kiwifruit Complex	
Product code:	XDC	
Country of origin	New Zealand	
Product description	Digesten® Kiwifruit Complex is a proprietary blend of kiwifruit enzyme powder and kiwifruit skin extract. Light green/brown in colour, mildly astringent in taste, and high in natural polyphenols, soluble fibre and actinidin (protease) enzyme.	
Botanical description:	Actinidia deliciosa	
Other name:	kiwifruit	
CAS number:	kiwifruit 92456-63-8	
Plant part:	flesh* and skin	
Solvent:	potable water	
Equivalence:	fruit:extract 16:1**	
Plant preparation:	wash, extract, concentrate, freeze-dry, blend	
Excipient:	silicon dioxide (2.5% w/w)	
GMO:	non-GMO	

Minimum recommended dosage: 500-1000 mg per serve

Physical, analytical and microbiological detail			
Test	Specification	Method	
Appearance	Light green / brown powder	Visual	
Taste	Mildly astringent	Sensory evaluation	
Odour	Light aromatic	Sensory evaluation	
Actinidin activity	> 12,000 AU/g	Azocasein extraction, MacDonald & Associates	
Actinidin	> 1.5 mg/g	Azocasein extraction, MacDonald & Associates	
Soluble dietary fibre	> 150 mg/g	AOAC 985.29 OMA online	
Active ingredients	> 15 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	Solvent extraction, SPE cleanup, GC-MS/MS and LC-	
	specified by MPI managed database when	MS/MS analysis	
	read in conjunction with independent	https://www.mpi.govt.nz/resources-and-	
	laboratory pesticide test results	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	< 10,000 cfu/g	APHA 8.72 5th Ed	
Yeasts and molds	< 2,000 cfu/g	APHA 21.5 (modified) 5th Ed	
Escherichia coli	Negative/10g	APHA 9.93 (modified) 5th Ed	
Salmonella	Negative/10g	ISO 6579-1:2017	
Staphylococcus aureus	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, 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		

NOTE: Individuals who are allergic to kiwifruit may also be allergic to products containing Digesten® Kiwifruit Complex.

* green flesh minus skin, seeds, and calyx, otherwise the ratio from whole fruit to powder is 10:1

** Kiwifruit Enzyme powder: fruit: powder 10:1; & Kiwifruit Skin extract: fruit: powder 250:1. Blend equivalence fruit: powder 70:1

Date of Issue: 21st November 2023

Replaces: 21st September 2023