

# DIGESTEN®

## GUT HEALTH & DIGESTION RANGE

Premium bioactive functional ingredients of **Whole Green Kiwifruit**, New Zealand grown and known as a superfruit, improving digestive health & regularity with clinical evidence in support of this.

\*These studies implicate the polyphenol, soluble fibre & enzyme activity of Kiwifruit in promoting good gut health.



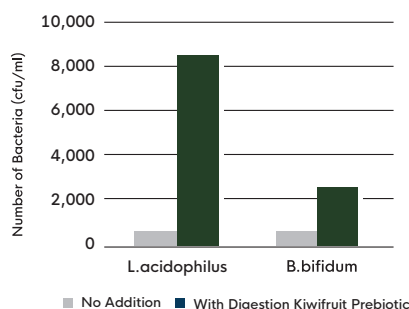
### KIWIFRUIT SKIN EXTRACT

#### Prebiotic Components

The proprietary combination of soluble fibre and phenolic compounds acts as a powerful prebiotic, significantly increasing the level of beneficial gut bacteria (figure 1).

Figure 1

Features of Kiwifruit Skin stimulates the growth of good gut bacteria. Dosage 250-500mg per serve.



### KIWIFRUIT ENZYME ACTIVE POWDER

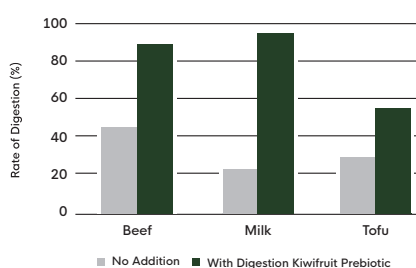
Premium Quality freeze dried New Zealand Kiwifruit flesh. High Potency **Protease Enzyme Actinidin** (EC3.4.22.14). This enzyme is closely related to bromelain and papain digestive enzymes. Actinidin is known to assist in the digestion of food proteins. Maximum enzyme activity.

### High levels of protein-digesting enzymes

Digesten® has been shown to significantly increase the rate of digestion of dairy, meat and soy proteins in a simulated gastric digestion model with pepsin and hydrochloric acid (figure 2).

Highly active at stomach acid pH unlike other proteolytic enzymes commonly used in supplements and food additives such as bromelain (pH optimum 4-8) and papain (pH optimum 6-7).

Figure 2



Digesten® Kiwifruit Enzyme has very high proteolytic activity compared to other kiwifruit powdered products:

Product	Proteolytic activity (CDU/g)#
<b>DIGESTEN® Kiwifruit Enzyme</b>	>16000
Kiwifruit enzyme preparation (Competitor A)	7000
Kiwifruit enzyme preparation (Competitor B)	>7500

### TECHNICAL INFORMATION

Form: Free flowing powder  
Dosage: 500-1000mg per serve

### KIWIFRUIT COMPLEX - THE ULTIMATE DIGESTIVE BOOST

A proprietary blend of **Kiwifruit Enzyme and Skin Extracts** - a complete digestive health product. Nothing is wasted in this product the whole kiwifruit is used in a freeze-dried powder rich in **Protease Enzyme Actinidin** (EC 3.4.22.14), **Prebiotic polyphenols and soluble fibre** essential for bowel and gut health. Dosage 500-1000mg per serve

### MARKETING BENEFITS

- Sustainable waste-free functional ingredient
- Inner health prebiotic activity to stimulate the growth of good gut bacteria
- Digestive-aiding enzymes
- High fibre gut health support
- Iconic premium New Zealand ingredient

### APPLICATIONS

- Protein Powder Blends
- Health Bars
- Supplements capsules
- Probiotics Enhancer

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 2. Chan AQ, Leung G, Tong T, Wong NY, World J Gastroenterol, 2007 Sep 21;12(35):4771-5  
 3. Effect of Kiwia powder on gut health in patients with occasional constipation: a randomized double-blind, placebo controlled study. Udani and Bloom (2013) Nutr. J. 12:78  
 4. Actinidin enhances gastric protein digestion as assessed using an in vitro gastric digestion model. Lovedeep et al (2010) J. Agric. Food Chem., 58, 5068-5073  
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 6. Prebiotic effect of kiwifruit extract - Trinity Bioactives Ltd, Wellington, New Zealand.  
 7. Adv Food Nutr Res. 2013;68:149-67. doi: 10.1016/B978-0-12-394294-4.00008-0.