

# IDP Technical Data Sheet

IDP® is a bioactive milk protein complex that was created by nature to support immunity and digestive health. With powerful antimicrobial and anti-inflammatory properties, IDP® offers a natural functional ingredient that can be used in a wide range of applications including dietary supplements, skincare and functional foods and beverages.

## Background

IDP® is extracted from pure New Zealand milk, and manufactured under strict New Zealand dairy RMP standards.

IDP® contains over 50 bioactive milk proteins, including lactoferrin, lactoperoxidase and immunoglobulins. The synergy created by this natural protein complex provides anti-inflammatory and antimicrobial properties that are far more powerful and effective than the purified isolates.

Quantec discovered IDP® and has been granted patents for the application of its unique properties. IDP® is successfully used as an active natural ingredient in dietary supplements, skin care and pet care.

## IDP® Properties

### Selective antimicrobial properties

IDP® supports the body's microbiome. It is significantly more effective against common pathogens than pure lactoferrin, while being relatively ineffective against commensal and probiotic species<sup>1</sup>.

### Potent antiviral efficacy

IDP® is very effective at inhibiting viral entry into cells, and independent in-vitro testing confirms it is more effective than pure lactoferrin against species such as influenza A and COVID-19<sup>2,3</sup>.

### Anti-inflammatory activity

IDP® provides potent anti-inflammatory effects, and ex-vivo and clinical testing confirms comparable performance with common and widely accepted anti-inflammatory agents<sup>4</sup>.

IDP® bioactive proteins occur naturally in milk, and its constituents are all GRAS or approved for food applications.

50mg is recommended as a functional daily dose for ages 3+.

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**Quantec**®

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## Product Characteristics

- IDP<sup>®</sup> is a freeze dried powder
- Appearance – beige/light brown with dark speckles
- Odour/flavour – neutral

## Applications

IDP<sup>®</sup> can be incorporated into a wide range of product formats including powders, tablets, capsules, gels, emulsions, and liquids.

Market applications include;

- Dietary supplements
- Oral care (toothpaste/sprays/rinses)
- Functional Foods
- Skincare
- Dairy foods
- Pet care

IDP<sup>®</sup> bioactive proteins are heat sensitive and to maintain effective bioactivity they should not be subject to temperatures above 40° C for an extended duration.

## Packaging

IDP<sup>®</sup> is packaged in laminated foil pouches. Secondary packaging is a cardboard shipping carton.

Net product weight is 5kg per pouch. Two pouches per carton.

## Shelf life and storage conditions

Recommended storage is <25° C and <65% RH.

Shelf life is three years from date of manufacture.

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## Typical analysis\*

### Microbiological

Aerobic plate count (cfu/g)	< 10
Total yeasts and moulds (cfu/g)	< 1
Salmonella (per 25g)	Not detected
Listeria (per 25g)	Not detected
<i>B. cereus</i> (cfu/g)	< 10
Coliforms (cfu/g)	Not detected
Coagulase positive <i>S. aureus</i> (cfu/g)	Not detected
Residual Phosphatase	Negative activity

### Chemical

Protein	> 90%
Moisture	2.3%
Ash	1%

\*Please refer to the IDP<sup>®</sup> specification for specification limits.

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### References

- <sup>1</sup> Quantec Technical note 29.0 IDP<sup>®</sup> Gut Microbiome Effects Adam KH, Quantec Ltd.
- <sup>2</sup> Quantec Technical note 25.0 Anti-Viral Effects of IDP in an In Vitro Study Adam KH and Claycomb RW Quantec Ltd.
- <sup>3</sup> Quantec Technical note 26.0 Anti-CoVID-19 Effects of IDP in an In Vitro Study Adam KH and Claycomb RW Quantec Ltd.
- <sup>4</sup> Results from Ex Vivo trial on Activated Neutrophils, Quantec and Trinity Bioactives.