

Rely on Ingredion for product success

Consumers are increasingly interested in healthier alternatives for their pets, ones that incorporate scientifically proven nutritional ingredients. There is an ever present need for ingredient innovation to include new technologies and process improvements to positively affect product development and ultimately deliver better tasting, better-for-you products.

Ingredion has the experience, the expertise and resources to develop appealing consumer products. Our work has taken us into virtually every facet of formulation and production in almost every application. We apply our marketing intelligence and consumer trend insights to develop innovative solutions that address emerging consumer demands.

Look to us to partner with you to produce products that deliver on-trend products with the same tastes and textures consumers have come to expect from traditional offerings.

Get started today

Ingredion is a leading global provider of ingredient solutions with a broad portfolio of ingredients. Our company has the experience, the expertise, and the resources to help you develop products which address today's needs for the pet food and supplements market. Ingredion's unique ability to solve the nutritional benefit/quality/processing equation inspires farm animal feed formulators to create innovative, healthy and nutritionally beneficial feeds for the industry.

Ingredion's staff of one-on-one account managers, technical staff and customer service professionals are available to answer your questions. Contact us today.

FIND OUT MORE: ingredion.com.au | ingredion.co.nz

In Australia, contact: T: 1 800 251 871

In New Zealand, contact: M: +64 21 274 2063

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SUPPORT YOUR PET'S INNER HEALTH. PREBIOTIC FIBRE BENEFITS.

FORTIFEED® — Supporting the wellbeing of the animal you love



Developing ideas.
Delivering solutions.™



About FORTIFEED®

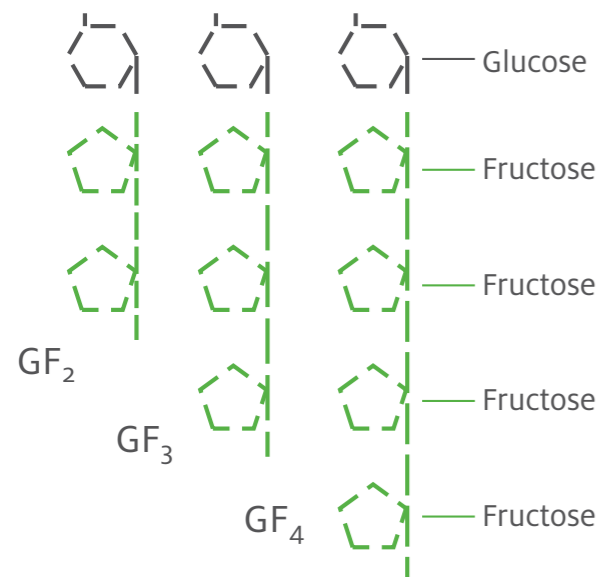
FORTIFEED® prebiotic soluble fibre is derived from pure sugar cane utilising a bio-fermentation proprietary process and non-GMO ingredients. The result: the purest form of short-chain fructooligosaccharides (scFOS®) available on the market.

Prebiotic fibres are non-digestible food ingredients which, when consumed, provide a beneficial physiological effect on your pet by selectively stimulating the favourable growth and/or activity of a limited number of beneficial indigenous bacteria found naturally in the intestines.

The relationship between consumers and their pets is an enduring one. According to Euromonitor International, almost 4 in 10 Australian households has a dog¹, with 3 in 10 having a cat² and they are very much considered part of the family. Pets are living longer and healthier lives, thanks to pet owners' willingness to provide veterinary care, specialty foods, supplements and alternative treatment options.

Pet owners should be aware that every cat, dog or horse's intestinal tract contains a complex mix of microflora, which when well-nourished, can assist with proper digestive system function. FORTIFEED works by acting as a food source for beneficial intestinal flora which, in turn, performs a number of beneficial functions. This helps keep pets and their owners happy.

FORTIFEED consists of β 2-1 linked linear chains of fructose bound to a terminal glucose. The chain length, or degree of polymerisation (DP), varies from three to five. ScFOS is a natural compound found in a variety of fruits, vegetables and gains at low levels. FORTIFEED's consistent, simple molecular structure and 95% scFOS concentration ensure the most effective prebiotic effect available.



FORTIFEED is not digested in the upper gastrointestinal tract. Because of its special beta-linked structure, FORTIFEED is not affected by digestive enzymes and arrives intact in the intestines, where it selectively promotes the growth and activity of beneficial intestinal bacteria, such as *Bifidobacteria* and *Lactobacilli*. The digestive and immune health benefits associated with FORTIFEED are linked to the increase in beneficial bacterial activity and from the production of metabolites such as short-chain fatty acids which are known to promote healthy colonic tissue and function.

Health Benefits and Claims

FORTIFEED prebiotic fibre has been scientifically shown to support digestive, immune and reduced fecal odour claims. It adds value to your nutritional program for your beloved pet. These impressive health benefits are demonstrated by over 20 years of research and numerous scientific publications validating its ability to improve the health of pets and livestock in several key areas. These health benefits are easily obtained even at very small quantities of FORTIFEED, providing a cost effective way to add consumer-friendly label claims on companion animal products.

These claims include:

- Prebiotic
- Improved microflora balance
- Encourages healthy digestive function
- Helps support the immune system
- Helps reduce odours

Depending on the animal species, the age, and weight the inclusion rates of FORTIFEED® vary:

Canine

- 0.15% to 1.5% of diet

Feline

- 0.50% to 1.1% of diet

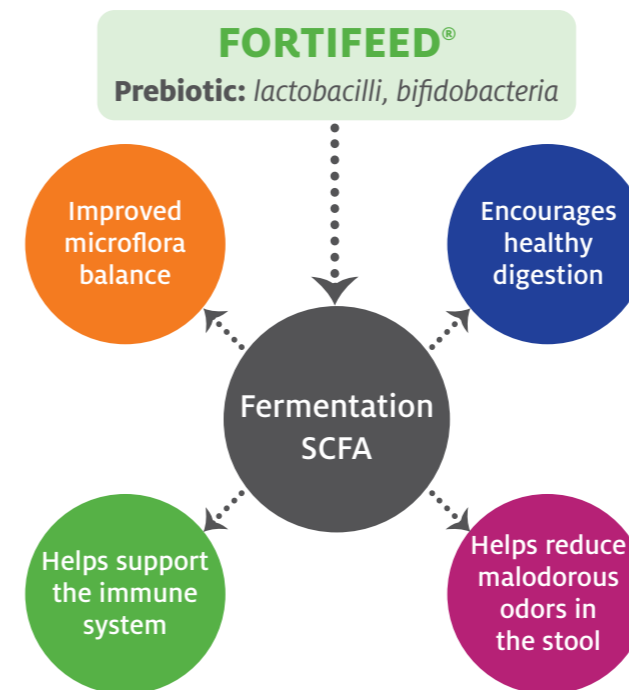
Equine

- 5-30 grams/day (depending on pleasure or work horse activities)
- 0.035% to 1% of diet

Summary of clinical health effects

Dogs, cats and horses alike benefit from the inclusion of FORTIFEED® in the diet as it is uniquely capable of naturally supporting their wellbeing. FORTIFEED works in the terminal-ileum and colon of animals, which is home to both beneficial and pathogenic bacteria. Using FORTIFEED to achieve and maintain a proper balance in the bacterial populations is essential in maintaining the animal's optimal wellbeing.

FORTIFEED prebiotic fibre offers many unique advantages to companion animals, as it feeds only the beneficial bacteria. When these bacteria are properly nourished they inhibit pathogenic bacteria, support nutrient utilisation, maintain a strong immune system and encourage healthy digestive function.



FORTIFEED is one of the most well-researched prebiotic fibres available on the market for pet and animal health. Ingredient can support FORTIFEED's claims for companion animals with sound scientific information and research results — which means our customer's will be able to do so as well.

Technical attributes and superior functionality

As an ingredient in consumption animal food, FORTIFEED prebiotic fibre offers several processing, quality and regulatory advantages when compared with other competitive ingredients.

FORTIFEED offers superior stability and is stable in most processing conditions, making it ideal for an extensive array of applications. It is highly soluble and dispersible, ideal for liquid and dry formulations. It does not participate in the Maillard browning and will not react with protein during processing, ensuring protein quality and availability.

FORTIFEED is easy to incorporate and use. It does not require refrigeration and has a long shelf life. It can be added directly to dry ingredients or mixed with liquids, requiring virtually no processing modifications.

FORTIFEED has a clean, mildly sweet taste and enhances palatability. It can successfully mask the off-notes of a variety of feed inputs, which encourages fussy eaters and pets with sensitive tummies.

FORTIFEED is ideal for reduced kilojoule formulations. It enhances the characteristics of special dietary feeds, adds fibre and contributes to overall kilojoule reduction in any formulation (1.5 kcal/gram)

FORTIFEED prebiotic fibre is produced under extremely stringent quality controls. These controls ensure that the product our customers receive and feed to their animals is the same product that has undergone decades of clinical testing. Through our unique manufacturing process, the consistent molecular composition of FORTIFEED is guaranteed from lot to lot. FORTIFEED is commercially produced in Ingredion's ISO 9002 certified facility. Its regulatory and quality features include:

- scFOS® (short-chain Fructooligosaccharides) are GRAS
- On the USDA list of products suitable for organic applications
- Kosher
- Non-GMO
- Allergen free
- BSE free