



trusted petfood
ingredients



**IQI green banana
powder**



trusted petfood
ingredients



IQI Green banana powder

Green banana powder: a sustainable, grain-free ingredient to promote gut health

Anticipating the ever-growing demand in grain-free pet food, IQI is continuously exploring new, healthy and sustainable sources of grain-free starch for pets. Sprouting from this ongoing quest, we recently added green banana from the Philippines to our ingredient portfolio. Resulting from harvests for human consumption, these 100% fresh yet unripe fruits offer a novel, sustainable, and healthy ingredient for pet food.

IQI's green banana powder is made from 100% fresh yet unripe Philippian bananas, grown by our supplier Dole Specialty Ingredients (DSI) – one of the world's largest fruit producers with more than 32,000 ha of banana, pineapple, and papaya farms and more than 350 packing plants on the Philippines. After harvesting the crops, the bananas which are rejected – mostly for cosmetic reasons – are washed, peeled (on demand), sliced, dried, pulverized and sieved. The remaining light brown-green banana powder is an ideal choice for pet food formulations.

Various beneficial characteristics

As a naturally processed pet food ingredient, IQI's green banana powder offers a wide array of characteristics that make it an ideal choice for pet food formulations. The product is grain- and gluten-free, low in fat and sugar, yet rich in minerals such as potassium and magnesium, and vegan. The powder also offers different functional benefits. Next to its neutral tasting, it can go in various pet food formulations as a texturizer and thickener thanks to its pectin content. Research indicates that it could also potentially serve as a natural color additive thanks to the powder's light brown color.

Resistant starch for optimized nutrition

Another beneficial feature – setting green bananas apart from their yellow family members – is their naturally high content of so-called resistant starch (>35%). Known as a powerful prebiotic

fiber, resistance starch works through the digestive system to promote gut health. Unlike other types of carbohydrates, it is not (rapidly) digested in the small intestine but instead passed into the large bowel. There, it is fermented by bacteria into short chain fatty acids which absorb excess fluid. The result is that the dog's stools get firmer, and the occurrence of diarrhea is reduced. Research indicates that resistant starch also reduces and controls the rate and extent of intestinal starch digestion to glucose in pets. As a most notable result, glucose does not flood their circulation as rapidly – the so-called glycemic effect. It may also contribute to satiety, colon health, and immune health.

Two versions

IQI's green banana powder comes in two versions, one with and one without peel.

Green banana powder		
	With peel	Without peel
Moisture	< 8 %	< 8 %
Protein	4.3 %	4.7 %
Fat	1.1 %	0.2 %
Ash	3.7 %	3.2 %
Fiber	7.6 %	6.9 %
Starch	66.3 %	70.5 %
Resistant starch	37.1 %	38.1 %

Sustainable choice

As an upcycled side stream from banana harvests for human consumption, IQI's green banana powder accounts for a sustainable pet food ingredient. Worldwide, more than 15% of bananas are rejected in farms for cosmetic reasons. These discarded fruits were historically used as land fill, while recently they have been proposed as a valuable energy source for bioelectricity generation. According to Moerman's ladder, however, processing human grade food waste into pet food ingredients is a more desirable option than using them for chemicals and materials, as pet food accounts for higher-quality material.

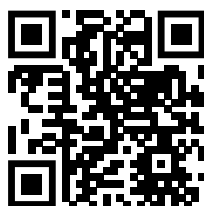


trusted petfood
ingredients

Disclaimer

The content of this product leaflet has been prepared with the utmost care. This product leaflet contains general information and that may not be applicable to all products of all companies in all situations. In addition, certain of the information included in the product leaflet may be derived from information received from third parties. IQI makes no warranties, guarantees or representations with regard to the accuracy, completeness or suitability of the information presented in the product leaflet, including any information derived from information received from third parties. Although IQI believes that the information contained in this product leaflet is correct at the time of publication, IQI accepts no liability for any inaccuracies in this product leaflet. IQI hereby disclaims any liability to any party for any loss, damage, or disruption, in whatever form or of whatever nature, suffered by or resulting from the use of or the information presented in this product leaflet, whether or not caused by IQI's errors, omissions or inaccuracies in the product leaflet, and whether or not such errors, omissions or inaccuracies result from tort, negligence, lack of care, incorrect actions, accident or any other cause. IQI is not responsible for the content in any document or any website or any other information from third parties referred to in this product leaflet. You should not use this product leaflet or rely on it if you do not agree to the above exclusion of liability and any use of or reliance on this product leaflet is in one's own name and at one's own risk.

IQI reserves all copyrights and other intellectual property rights on the content of this product leaflet. Unauthorized or improper use of this product leaflet and/or its content violates the intellectual property rights of IQI. Permission to use any content of this product leaflet or part thereof must be requested in writing to IQI. If you have any questions about the content of this product leaflet, please contact IQI. Email: info@iqi-petfood.com Website: iqi-petfood.com



iqi-petfood.com