



Marketing Specification Sheet

Reviewed June/2022

Green Banana Powder without Peel (GBP)

Product HS Code	Ingredients																										
1106.30.2000/ 1106.30.1000	100% Natural Green Bananas, No-Added Chemical and Preservative																										
Description	Key Benefits and Claims																										
Dole's 100% natural Green Banana Powder is derived from minimal processing of freshly harvested green bananas from Dole's sustainably managed Philippines plantations. Thanks to its high Resistant Starch content, clean taste, and ease of use, it is the ideal ingredient for nutritional fortification in bakery, beverages, and supplements products and others.	<ul style="list-style-type: none"> • Non-GMO and No Animal Testing • High resistant starch content • Lower Glycemic Index and Prebiotic* • Help reduce calories and fat content without impacting the functionality of end use applications* • Rich in Minerals (Potassium and magnesium) <p>*Secondary research claims</p>																										
Nutritional Label	Product Functionality																										
<p style="text-align: center;">Nutrition Facts</p> <table border="1"> <thead> <tr> <th>Amount</th> <th>Per 100g</th> </tr> </thead> <tbody> <tr> <td>Calories</td> <td>336 kcal</td> </tr> <tr> <td>Total Fat</td> <td>0.4 g</td> </tr> <tr> <td>Sodium</td> <td><25 mg</td> </tr> <tr> <td>Total Carbohydrates</td> <td>85.91 g</td> </tr> <tr> <td> Total Starch</td> <td>73.4%</td> </tr> <tr> <td> Resistant Starch (RS2)</td> <td>40.7g</td> </tr> <tr> <td> Dietary Fiber</td> <td>7.4 %</td> </tr> <tr> <td> Sugar</td> <td>1.0 g</td> </tr> <tr> <td>Protein</td> <td>4.65 g</td> </tr> <tr> <td>Iron</td> <td>1.17 mg</td> </tr> <tr> <td>Magnesium</td> <td>104 mg</td> </tr> <tr> <td>Potassium</td> <td>1240 mg</td> </tr> </tbody> </table> <p>*Amount slightly varies depend on different product batch</p> <p>Shelf Life: 18 months (to be updated)</p> <p>Packaging Style: 20kg (2x10kg, aluminum bag, in regular slotted carton)</p>	Amount	Per 100g	Calories	336 kcal	Total Fat	0.4 g	Sodium	<25 mg	Total Carbohydrates	85.91 g	Total Starch	73.4%	Resistant Starch (RS2)	40.7g	Dietary Fiber	7.4 %	Sugar	1.0 g	Protein	4.65 g	Iron	1.17 mg	Magnesium	104 mg	Potassium	1240 mg	<p>Dosage:</p> <p>Wet Application: Up to 20% GBP</p> <p>Dry Application: Up to 40% GBP</p> <p>Resistant Starch Calculation:</p> <p>Product: Product XYZ (per serving, g)</p> <p>GBP Dosage(x): (x) * RS % = RS content (grams)</p> $w/w\% \text{ in formulation} = \frac{RS \text{ CONTENT (g)}}{PRODUCT \text{ XYZ (g)}} \times 100\%$ <p>*%RS found in COA (will vary)</p> <p>*RS2 mainly found in Green Banana</p> <p>CASE STUDY</p> <p>Product: Pancake (per serving=60g)</p> <p>GBP (37.1% RS2) dosage = 15g</p> <p>RS2 Content= 15g* 37.1% RS2 = 5.6g RS2= (9.3% w/w)</p> <p>Key Characteristics</p> <p>Solubility: Low</p> <p>Gelatinization: 60 °C , 5 minutes, subjected to further testing</p> <p>Water Holding Capacity: 1.35 g/g</p> <p>Oil Holding Capacity: 1.56 ml/g</p>
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Application	Examples	Function
BAKERY	Breads; muffin; cakes; cookies; pancakes; biscuits	Base flour, texture; gluten-free; low GI
BARs, CEREALS, AND SNACKS	Extruded cereals; puffs; crackers; chips	Texture; thickening; low GI; low carb
INFANT AND TODDLER NUTRITION	Extruded puffs; biscuits; crackers; bars	Base flour; texture; mild flavour; low GI
PLANT BASED BEVERAGES	Dairy alternatives; beverages, yogurt	Texture; gluten-free; low GI; Prebiotic

Noted by:
Maurice S. Matapaja, New Product Development Lead