	PRODUCT SPECIFICATION				
	FD Banana Powder				
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1. Product Information


Name	FD (Freeze Dried) Banana Powder
Country of Origin	China, Colombia, Costa Rica, Ecuador, Guatemala, Peru
	Variety – Various, but only as accepted and approved
Composition	100% Banana
Production Description	Derived from freshly frozen, clean and ripe IQF banana, peeled, cut, sliced, sorted and freeze dried then milled / sieved into a fine powder before being packed. The product is free from any further additives or preservatives.
Quality Declaration	The product is handled, packed and stored under the manufacturing practices and processes of HACCP, GFSI Certified Standards and produced in compliance with the specified requirements of the Product Specification.

2. Physical Appearance & Tolerance

Parameters	Requirements/ Tolerance
Colour	Pale Yellow to Cream
Cut Type	Powdered
Aroma	Typical Characteristics of Banana
Taste	Typical Characteristics of Banana
Texture	Fine powder
Sieve Size	5% (+/-) 80 / 60 Mesh
Moisture (g/100g)	Max 5%
Clumping	< 2% clumps
Organoleptic defects	Free from off taste or smell
Endogenous foreign matter – Leaves / Stalks	1% in 10Kg
Exogenous foreign matter – Insects / Larvae / worms	Nil
Foreign matter – wood, glass, metal, stone, plastic	Nil

3. Size & Grade

Size	Fine powder

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4. Microbiological Limits

Parameters	Unit	Limits
TPC	cfu/ g	< 50,000
Yeast	cfu/ g	< 1,000
Mould	cfu/ g	< 1,000
Coliforms	cfu/ g	< 100
E Coli	cfu/ g	< 10
<i>Staphylococcus Aureus</i>	cfu/ g	< 50
<i>Salmonella</i>	in 25 g	Negative
<i>Listeria Monocytogenes</i>	in 25 g	Negative
<i>Norovirus</i>	in 25 g	Negative
Complies with EU/ UK/ FDA Regulations; country of delivery		


5. Production Control

X-Ray	To detect and reject test pieces, Metal Ball: 2.0mm, Glass Ball: 2.5mm & Ceramic Ball: 2.0mm, before being packed
Laser Sorter	To detect and separate foreign bodies during production
Magnetic Separation	Magnetic force >6000Gs, before being packed
Metal Detection	Detector to reject test pieces, Ferrous: 0.9mm, Non-ferrous: 1.2mm & Stainless steel: 1.6mm, before being packed.
Weight Control	Weighting tolerance – N/A. Minimum Net Weight as per Specification and carton label.

6. Nutritional

Nutritional Values*		Average per 100 g
Energy	(Kj/Kcal)	1470 Kj / 351 Kcal
Total Fat	(g)	0.4
of which Saturated Fat	(g)	0.1
Carbohydrates	(g)	81.5
Of which Sugar	(g)	73.1
Fibre	(g)	6.6
Protein	(g)	5.3
Sodium	(mg)	< 3

*This nutritional disclaimer notifies that under no circumstances we will be responsible for any loss, damage or liability resulting from your reliance on nutritional information given. The approximate nutritional values given are only to be used as guidance.

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7. Packaging Items and Labelling –

- **Packaging Items:** All packaging items to be agreed with Customers prior to production.


Items	Properties
Cases	Clean first use, food safe, rigid corrugated cardboard cartons
Inner Packs	Clean, first use, food grade Blue PE liner or Silver Foil bags (Heat Sealed)
Tape seal	Brown / Blue, self-adhesive tape – No staples
Label	One per case
Pallet	Unless specifically agreed otherwise – Standard first use industrial wooden (100x120cm) or euro (80x120cm), clean, free from damage and foreign materials
Pallet wrap	All pallets are wrapped, Max height tbc
Weight per case/unit – EU/UK	10kg (22.04lb) Net weight Carton (5 x 2kg Bags / 1 x 10kg Bag) 18kg (39.68lb) Net weight Carton (2 x 9kg Bags)
Weight per case/unit – US	22.04lb Net weight Carton (5 x 4.4lb Bags / 1 x 22.04lb Bag) 39.68lb Net weight Carton (2 x 19.84lb Bags)
Number of cases per pallet	tbc
<i>Complies with related EU/ UK/ FDA legislations; country of delivery</i>	

7.1 Label Detail: Each Carton – Pre-Approval required.

- **Name of Product** : As per Specification Product Description
- **Material Number** : Customer Specific
- **Raw Material Origin** : Country
- **Batch No** : 0000
- **Production Date** : DDMMYY
- **Best Before Date** : DDMMYY
- **Net weight** : X Kgs (lbs) / Lbs
- **Gross Weight** : X Kgs (lbs) / Lbs
- **Manufacturer/ Packer** : Name
- **Item Code** : 17 Digit IF Code

8. Shelf-Life & Storage Conditions

- 18 months from production date if stored in original sealed packaging.
- Storage and transportation at ambient level
- Store at appropriate temperature, in a clean and dry environment, away from direct sunlight and strong odours.
- The means of transport must ensure hygiene conditions and guarantee integrity and quality of the produce.
- Product shall be protected from weather, condensation, dust, infestation and any other contamination elements.
- Rotate stocks to use oldest first.

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9. Consumer Group & Intended Use

- **Edible** – For general consumer consumption, predominantly as an ingredient.

10. Regulatory Declarations

Pesticides	Pesticide detected residues comply with the legislative maximum levels (MRL's) stipulated by EU/ UK/ FDA*
Total Heavy Metal	The product complies with legislative maximum levels in accordance with levels stipulated by EU/ UK/ FDA*
GMO	The product is free from any GMO material in accordance with EU/ UK/ US legislation.
Allergen	The final product does not contain any allergen used as an ingredient, nor produced on same line. However, the product is manufactured in a facility that also handles allergens, including but not exhaustive to Gluten and Tree Nuts. Maintaining compliance with EU/ UK/ FDA stipulated allergen regulations.
*Country of delivery	

11. Sign off Approval For our Supplier/ Manufacturer

	IF Prepared by	IF Approved by	Supplier/Customer Approved
Signature	Adam Patman	Josias Nunes	
Position	Technical Lead	Manager	
Date	29.08.2024	29.08.2024	

Allergens:- When purchased in bulk size original packaging, manufacturer allergen policy will apply. When purchased in quantities that need re-packaging, our allergen policy will apply.						
Component	Manufacturer			Nuts in Bulk (Applies when bought in small quantities that need re-packaging)		
	In Product	Processed in Same Equipment	Handled on Site	In Product	Processed in Same Equipment	Handled on Site
Cereals containing GLUTEN and products thereof	NO	NO	NO	NO	YES	YES
EGGS or its derivatives	NO	NO	NO	NO	NO	NO
FISH or its derivatives	NO	NO	NO	NO	NO	NO
CRUSTACEANS / SHELLFISH	NO	NO	NO	NO	NO	NO
MOLLUSCS	NO	NO	NO	NO	NO	NO
PEANUTS or derivatives	NO	NO	NO	NO	YES	YES
SOYA BEANS or derivatives	NO	NO	NO	NO	YES	YES
MILK (LACTOSE) or its derivatives	NO	NO	NO	NO	YES	YES
NUTS , tree nuts:	NO	NO	NO	NO	YES	YES
CELERY, including celeriac and its derivatives	NO	NO	NO	NO	YES	YES
MUSTARD, referring to all parts of the plant and derivatives thereof	NO	NO	NO	NO	YES	YES
SESAME SEEDS or derivatives	NO	NO	NO	NO	YES	YES
SULPHITES >10ppm – Sulphite quantity to be given in ppm	NO	NO	NO	NO	YES	YES
LUPIN seeds or derivatives	NO	NO	NO	NO	NO	NO