



PRODUCT SPECIFICATION
Freeze Dried Blueberry Powder

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1. Product Information

Name	FD (Freeze Dried) Blueberry Powder
Country of Origin	Argentina, Canada, Chile, China, Germany, Morocco, Netherlands, Peru,
Profile	Various Varieties – Typical of Vaccinium Corymbosum (wild) & Cyanococcus (cultivated), but only as accepted and approved by Integrity Foods.
Composition	100% Blueberry
Production Description	Derived from freshly frozen, ripe, clean, whole IQF blueberries, milled into a fine powder. 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	Typical of Blueberry
Cut Type	Powdered
Aroma	Characteristics of Blueberry
Taste	Characteristics of Blueberry
Texture	Fine free flowing powder
Sieve Size	5% +/- 80 Mesh
Moisture	Max 5%
Clumping (more than 3 pieces)	Free flowing powder < 2% clumps
Organoleptic defects	Free from off taste or smell
Endogenous foreign matter – Leaves / Stalk	1% in 10Kg
Exogenous foreign matter – Insects / Larvae / worms	Nil
Foreign matter – wood, glass, metal, stone, plastic	Nil

3. Size & Grade

Size	Fine free flowing powder
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4. Microbiological Limits

Parameters	Unit	Limits
TVC	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>		Absent

Complies with EU Regulation 2073/2005. (As retained in UK law before 23:00 on 31 December 2020)

5. Production Control

X-Ray	To detect and reject test pieces. Low Mineral Glass: 2.5mm, High Mineral Glass: 2.0mm & Stainless Steel: 2.0mm
Magnet Separation	Magnetic force > 8000Gs, before being packed
Metal Detection	Detector to reject test pieces, Ferrous: 0.9mm, Non-ferrous: 1.0mm, Stainless steel: 1.6mm & Aluminium: 1.0mm, 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)	1467 Kj / 347 Kcal
Total Fat	(g)	1.5g
Of which Saturates	(g)	0.2g
Total Carbohydrates	(g)	70.5g
Of which Sugar	(g)	70.5g
Of which Fiber	(g)	11.6g
Protein	(g)	7g
Sodium	(mg)	15.5mg

**This nutritional disclaimer notifies that under no circumstances will NUTSINBULK 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 Silver foil bag (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	10kg Net weight Carton (5 x 2Kg Bags / 1 x 10Kg Bag)
Number of cases per pallet	tbc
<i>Complies with related EU legislations, in particular EU Regulation 1935/2004. (As retained in UK law before 23:00 on 31 December 2020)</i>	

8. Shelf-Life & Storage Conditions

- 18 months from production date if stored in original sealed packaging
- Storage and transportation at 20°C and < 40% Humidity
- 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) of (EC) No 396/2005
Total Heavy Metal	The product complies with legislative maximum levels in accordance with (EC) No 1881/2006
GMO	The product is free from any GMO material in accordance with EU legislation (EC) No 1829 & 1830/2003
Palm Oil	Producers supplying products containing Palm Oil must confirm certification status of Palm Oil and RSPO certification status with their Palm Oil supply chain.
<i>Related EU legislations (As retained in UK law before 23:00 on 31 December 2020)</i>	

Allergens:-When purchased in bulk size original packaging, manufacturer allergen policy will apply.
When purchased in quantities that need re-packaging, our allergen policies 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

11. Sign off Approval

	IF Prepared by	IF Approved by	Supplier/Customer Approved
Signature			
Position	Technical Lead	Manager	
Date	17.01.2024	17.01.2024	