

Specification Final Product	PS 04.143
QRR Blueberry Ration Bar	v. 2.5.3/25.07.25

Document	Product Specification
Subject	QRR Blueberry High Protein Energy MealBar Ration Specification
Product Description	QRR Blueberry Protein Ration Bar, Protein bar Specification
Country of Origin	Netherlands (IP registered in the Netherlands)
Shelf Life	730 days (from date of manufacture)**
Product Weight	100g e
Ingredient Declaration	dates, pea protein, date syrup, deodorized coconut oil, rice protein, almond protein, rice syrup, glycerin, popped amaranth, sea salt, sunflower lecithin, mixed tocopherols, natural flavoring (blueberry flavoring), rosemary extract, citric acid powder
Allergen Declarations	Contains Almonds***. (Mark bold in the ingredient list on the packaging)
Labelling Declaration	May contain almond, hazelnut, walnut, cashew, pecan nut, brazil nut, pistachio nut, macadamia nut, peanuts and sesame seeds. May contain occasional pieces of fruit pits and nut shells.***
Application	Ready for consumption
Origin of main ingredients	dates* - United Arab Emirates, pea protein - China, date syrup* - United Arab Emirates, deodorized coconut oil* - Netherlands, Sri Lanka

Typical Nutritional Information

Range: up to 10g -> range is 2 g; over 10g -> range is 20%

Nutritional values****	100 g	100 g
Energy, kcal	400	400
Energy, kJ	1680	1680
Fat, g	14.5	14.5
- of which saturated, g	10.6	10.6
Carbohydrate, g	40.2	40.2
- of which sugar, g	31.2	31.2
Fiber, g	6.3	6.3
Protein, g	24.0	24.0
Salt, g	0.50	0.50
Polyols, g.	2.0	2.0

**** calculated

Physical Composition

Appearance	Rectangle bar shape
Intended Use	General public for direct consumption by consumers, without diseases having specific dietary requirements, with the exception of consumers of specific diets and allergic to any of the ingredients of the products and infants. The product is not intended for diabetics.
Vulnerable Groups	Infants, diabetics Persons with Allergens listed
Packing Configuration	Single units in labelled sealed foil wrap

Organoleptic parameters

Appearance	Products in the shape of an imperfect parallelepiped, developed throughout the volume.
Taste	Characteristic of the raw materials used, without side taste
Aroma	Characteristic of the input raw materials, without side odor
Color	Characteristic of the ingredients used
Foreign bodies - metal, glass, wood, hair and other	Foreign impurities < 0.01%/ batch (Detection minimum: Ferrous - 0,8 mm Non ferrous - 1,5 mm Stainless 316 - 2.5 mm Stainless 304 - 2 mm)

Microbial Limits

(testing to be done from monitoring program from manufacturer. If further tests are requested, client to please request in writing)

Enterobacteriaceae	up to 1000 CfU/g
Escherichia coli	up to 100 CfU/g
Salmonella species in 25 g. of the product	0 CfU/g / Absent
Yeast and Mould	up to 1000 CfU/g
Bacillus cereus	up to 100 CfU/g
Coagulase-positive staphylococci	up to 100 cfu/g

Toxicology in accordance with

Alphatoxins	B1 – 2 µg/kg; The sum of (B1, B2, G1 and G2) – 4 µg/kg
Ochratoxin A	3.0 µg/kg
Zaeralenone	100 µg/kg
Deoxyvalenol	1 250 µg/kg

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GMO Status	This product is not produced and does not contain GMOs within the meaning of Regulation 1829/2003 and Regulation 1830/2003
Vagan Status	Yes
Bio Status	No
Gluten free Status	Yes
Radiology	Non-irradiated

Chemical Composition

Testing to be done upon customer's request.	
Moisture	up to 22%

LOGISTIC INFORMATION

Product Dimension

Lenght, mm.	Width, mm.	Height, mm.	Weight, g.
110,0	40,0	22,0	100

Foil Packaging Dimension

Lenght, mm.	Width, mm.	Material	Weight, g.	Gross weight product, g.
165,0	153,0	BOPP 20 mat + BOPP 30 met	1,1	101,1

Display Box Dimension

Material	Lenght, mm.	Width, mm.	Height, mm.	Weight, g.	Number of products in 1 box	Gross weight Display box, g.
						0,0

Cardboard Box Dimension

Material	Lenght, mm.	Width, mm.	Height, mm.	Weight, g.	Number of bars in 1 cardboard box	Gross weight Cardboard box, kg.
3-layer corrugated board - TFT	370,0	194,0	156,0	160,0	47	4,9

Pallet Dimension

Number of cartons per row	Number of rows per pallet	Number of cartons per 1 full pallet	Lenght, mm.	Width, mm.	Height of a full pallet, mm.	Gross weight Pallet, kg.
12	9	108	1 200,0	800,0	1 548,0	550,5
Number of products per 1 full pallet						5 076

TRANSPORTATION AND STORAGE

Transportation	<p>All Vehicles will be inspected prior to and during loading to verify that quality and safety of the material will be maintained during transit</p> <ul style="list-style-type: none"> - Cleanliness - Dry, free from moisture - Covered, insulated truck body - Free from harsh chemicals - Free from strong odors - Free from all pests - Only accompanied by food & beverage products
Pallet Types to be used	Plastic OR Wooden pallets Size: 1200mm x 800mm
Shipping Instructions	12-22 ° C at all times during transport Keep the products out of direct sunlight at all times

WAREHOUSING AND STORAGE CONDITIONS

Warehousing & Storage Conditions	<p>Effective control of warehousing temperature, humidity and other environmental conditions shall be provided and monitored. Product to be kept between 12°C - 22°C at all times. Keep the product out of direct sunlight at all times. Windows must stay closed at all times. Products should at all times be stored on pallets and off the floor/ground. Do not double stack any pallets. Product should not be stored next to products with strong odors, as they may deteriorate the shelf life of the product. Pest control program must be in place. FEFO stock rotation systems must be observed. Waste materials and chemicals (cleaning products, lubricants and pesticides) shall be stored separately. External opening doors shall be closed or screened when not in use. Gasoline –or diesel-powered forklift trucks shall not be used in the food ingredient or product storage areas. In warehouse is necessary to have video recording system for VACCP.</p>
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TRACEABILITY	Each batch of bulk product is traceable to a Lot number that indicates production info and each bar has an expiry date and lot number.
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FOOD REGULATION

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The product conform with the relevant EU Food Safety legislation regarding food and ingredient quality (EU 178/2002 – General Food Law, EU 2283/2015 – Novel Foods Regulation). Regulation (EC) No 852/2004 of the European Parliament and of the Council of 29 April 2004 on the hygiene of foodstuffs. Regulation (EC) No 1333/2008 of the European Parliament and of the Council of 16 December 2008 on food additives (Text with EEA relevance). Regulation (EU) 10/2011 sets out safety requirements for plastic materials and articles intended to come into contact with food. COMMISSION REGULATION (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food (Text with EEA relevance). Food law from 2021. / Regulation 915/2023 and Regulation 2073/2005. Council Regulation (EC) No 834/2007 of 28 June 2007 on organic production and labelling of organic products and repealing Regulation (EEC) No 2092/91 and COMMISSION REGULATION (EC) No 889/2008 of 5 September 2008 / Regulation 1925/2006 / Directive 36 / 2000.
Laying down detailed rules for the implementation of Council Regulation (EC) No 848/2018 on organic production and labelling of organic products with regard to organic production, labelling and control

FOOD SAFETY SYSTEM	IFS Food
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CONFIDENTIAL	This certificate is highly confidential. The receiving party is not to divulge any information disclosed in this document to any third party without consent of Frontier B.V.
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*from organic agriculture

**shelf life is an estimate based on the proper conditions being adhered to such as correct packaging, packing, shipping & storage.

Manufacturing and final packaging are available via our vetted U.S. production partner, an FDA-registered, USDA-inspected, SQF-certified facility operating under HACCP/cGMP with DoD vendor compliance, ensuring full Berry Amendment conformity.

***must appear on the packaging

Any deviation from the standards in this specification will result in loss of guarantee in terms of product quality & shelf-life

CUSTOMER

NAME	POSITION	SIGN, STAMP
DATE		

MANUFACTURER

NAME	POSITION	SIGN, STAMP
DATE		