



Head Office: The Old Grammar School, 3-7 Market Square, Amersham, Bucks. HP7 0DF
Tel: (44) 1494 434600 Email: foodnettechnical@foodnet.ltd.uk

Technical Specification		
Product: Blueberries Cultivated	Last Update: 31/01/2020	Product Code:

PACK SIZE 1 x 10kg; 4 x 2.5kg; 5 x 1kg;

ORIGIN: Chile, Italy, Peru, Poland

GENERAL The product shall be prepared from fresh sound raw material that is free from all toxic residues and taints and shall comply with all current UK/EU Food Legislation. The product is intended to be used as ingredient that is further processed and heat-treated before final consumption.

INGREDIENTS Blueberries 100% Declare as: Blueberries
(*Vaccinium corymbosum*)

PROCESSING Blueberries are harvested by hand and delivered fresh to the factory, each load is quality assurance sampled for foreign material and physical defects. The blueberries are washed, dried and de-stalked, inspected and frozen to -18°C or below.

PACKING During packing the blueberries are inspected before weighing and filling into blue poly lined cartons. The cartons are Best Before and Production date coded, check weighed, metal detected, palletised and stretch-wrapped before being returned to store at -23°C to await despatch to the UK, at -18°C.

QUALITY CONTROL Checks are carried out on the following: -

Processing: - Raw material
Final Product
Temperature

Packing: - Metal detection
Check weighing
Final product physical defect levels
Organolepsis
Case quantity
Case sealing
Case coding and print quality

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DEFECT TOLERANCES

<u>Per 5000g</u>	Maximum
Foreign Material	Nil
EVM	1
Leaf >2.5mm	5
Leaf <2.5mm	15
Lateral String <5mm	15
Stalk <5m	2
Squashed	5% w/w
Underripe (Red/Purple)	1% w/w

DEFINITIONS OF DEFECTS

Foreign Material

This includes any material other than that derived from the blueberry plant or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, paint, grease, oil, foreign vegetable material or any other material which would render the product unacceptable.

EVM

These are pieces of vegetable material from the blueberry plant. This does not include Leaf or Cap Stems.

Leaf

Leafy material from blueberry plant.

Stalk

These are small stems which attach berries to the branch and means single cap stems or joined double cap stems with or without berries attached.

Under-ripe

These are blueberries that are either exhibit a red or purple colour and are significantly different to the rest of the sample.

Squashed

These are squashed berries.

The below minimum numbers of samples should be inspected and average result to be out-of-spec.

Quantity Delivered (Kg)	Minimum samples to be taken (1Kg of product per each item)		
	10Kg Boxes	20Kg Bags	25Kg Bags
<1000	4	2	2
<2000	8	5	4
<5000	10	7	5
<10000	15	10	8
≤27000	20	15	12

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ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR Dark blue/dark purple, typical of the variety.

FLAVOUR Typical of blueberries. Free from taints/off odours.

TEXTURE Uniformly firm and tender, yielding to the bite.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
<i>TVC @ 30°C</i>	1×10^4	1×10^5
<i>Total Coliforms</i>	1×10^2	5×10^3
<i>E. coli</i>	1×10^1	1×10^2
<i>Listeria mono</i>	Absent in 25g	1×10^2
<i>Salmonella</i>	Absent in 25g	Absent in 25g

ANALYTICAL Product shall be blanched to give a trace positive peroxidase reaction (guaiacol test) between 60 and 90 seconds.

WEIGHT CONTROL The product shall be packed to minimum weight.

METAL DETECTION All cartons shall be passed through a metal detector. The system shall be tested at least every 2 hours using ferrous, non-ferrous and stainless-steel test pieces.

BEST BEFORE DATE The product shall be twenty-four months following the month of packing. Minimum BB date on delivery: 6 months.

TRACEABILITY INFO Production date or Lot number printed on the label as well as customer order number and/or delivery date.

STORAGE CONDITIONS Keep frozen at - 18°C at all times.

CARTON LINERS Blue food grade polythene liner of a minimum thickness of 30µm.

CARTONS Corrugated fibreboard of glued construction, no metal staples to be used. Shall be sealed using blue adhesive tape.

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NUTRITIONAL INFORMATION

This data conforms to the requirements of EC Council Directive 90/496/EEC

100g of uncooked blueberries typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	51	USDA Nutrient Database Release 21
Energy - kJ	213	USDA Nutrient Database Release 21
Moisture	86.6g	USDA Nutrient Database Release 21
Carbohydrate	12.2g	USDA Nutrient Database Release 21
- as sugars	8.5g	USDA Nutrient Database Release 21
- as polyols	0.0g	USDA Nutrient Database Release 21
- as starch	Trace	USDA Nutrient Database Release 21
Fat	0.6g	USDA Nutrient Database Release 21
- as saturates	Trace	USDA Nutrient Database Release 21
- as mono unsaturates	Trace	USDA Nutrient Database Release 21
- as poly unsaturates	0.3g	USDA Nutrient Database Release 21
Protein	0.4g	USDA Nutrient Database Release 21
Fibre	2.7g	USDA Nutrient Database Release 21
Sodium	1mg	USDA Nutrient Database Release 21
Vitamin A	2µg	USDA Nutrient Database Release 21
Vitamin B ₆	0.06mg	USDA Nutrient Database Release 21
Vitamin B ₁₂	0.0mg	USDA Nutrient Database Release 21
Vitamin C	2.5mg	USDA Nutrient Database Release 21
Vitamin D	7µg	USDA Nutrient Database Release 21
Vitamin E	0.48mg	USDA Nutrient Database Release 21
Thiamin	0.03mg	USDA Nutrient Database Release 21
Riboflavin	0.04mg	USDA Nutrient Database Release 21
Niacin	0.5mg	USDA Nutrient Database Release 21
Folic Acid	7µg	USDA Nutrient Database Release 21
Biotin	0.0µg	USDA Nutrient Database Release 21
Pantothenic Acid	0.12mg	USDA Nutrient Database Release 21
Calcium	8mg	USDA Nutrient Database Release 21
Phosphorus	11mg	USDA Nutrient Database Release 21
Iron	0.2mg	USDA Nutrient Database Release 21
Magnesium	5mg	USDA Nutrient Database Release 21
Zinc	0.07mg	USDA Nutrient Database Release 21
Iodine	0.0µg	USDA Nutrient Database Release 21
Potassium	54mg	USDA Nutrient Database Release 21

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GMO DECLARATION

Does the product, or any of its ingredients contain any genetically modified material (whether viable or not)? YES / NO

Is the product or any of its ingredients not substantially equivalent as a consequence of the use of genetic modification? YES / NO

Is the product or any of its ingredients produced from, but not containing any genetically modified material? YES / NO

Have genetically modified organisms been used as processing aids or additives used in connection with the production of the food or any of its ingredients? YES / NO

Have genetically modified organisms been used to produce processing aids or additives but where such genetically modified organisms are not present in the processing aid as used in connection with the production of the food or any of its ingredients? YES / NO

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31st January 2020

IRRADIATION POLICY

I confirm that the product supplied by Foodnet Limited under this specification has not undergone any irradiation treatment or process. I further confirm that no ingredient or processing aid used in conjunction with this product has undergone irradiation treatment.

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31st January 2020

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FOOD INTOLERANCE

Food Intolerance Data				
Does the material supplied contain any of the following? (NO) Absent, (YES) Present				
Allergen	NO / YES	Reason for presence if YES		
Milk & Milk Derivatives	NO			
Egg & Egg Derivatives	NO			
Animal Products (*)	NO			
Fish/Shellfish/Crustations/Molluscs	NO			
Cereals (**)	NO			
Gluten	NO			
Yeast/Yeast Extract	NO			
Soya/Soya Derivatives	NO			
Fruit & Fruit Derivatives	YES	100% Blueberries		
Beef & Beef Products	NO			
Pork & Pork Products	NO			
Lamb & Lamb Products	NO			
Poultry & Poultry Products	NO			
Legumes	NO			
Peanuts	NO			
Sulphite >10ppm	NO			
MSG	NO			
BHA / BHT	NO			
Benzoates	NO			
Glutamates	NO			
Azo & Coal Tar Dyes	NO			
Added Colour	NO			
Added Flavour	NO			
Preservatives	NO			
Antioxidants	NO			
Added Salt	NO			
Nuts/Nut Oils	NO			
Caffeine	NO			
Sesame Products	NO			
Garlic	NO			
Poppy Seeds	NO			
Mustard	NO			
Celery/Celериac	NO			
Lupins	NO			
*Including any product derived from slaughtered animals, e.g. gelatine, rennet				
**Including wheat, corn, barley, rye, oats, etc.				
<u>Please be aware the manufacturing sites we supply this item from may handle allergens in production. Procedures are in place to prevent cross-contamination.</u>				
Is this product Suitable for:				
Vegans	Yes (Not certified)	Vegetarians	Yes	Organic No
Halal	Yes (Not certified)	Kosher	Yes (Not certified)	

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FOOD ADDITIVES

E. Number	Name	In Which Ingredient	Function in Ingredient	Function in Final Product	% In Final Product
None					

COSHH Data

Treat as you would any frozen material i.e. if engaged in prolonged handling of the fruit wear gloves.

Care should be used when lifting full cases of frozen fruits.


There are no other perceived COSHH implications regarding the use of frozen fruits.

THE CONTENTS OF THIS SPECIFICATION ARE CONFIDENTIAL TO FOODNET LTD AND THE CUSTOMER, AND MAY NOT BE DISCLOSED TO ANY OTHER PARTY.

Signed on behalf of Foodnet Ltd:

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31st January 2020

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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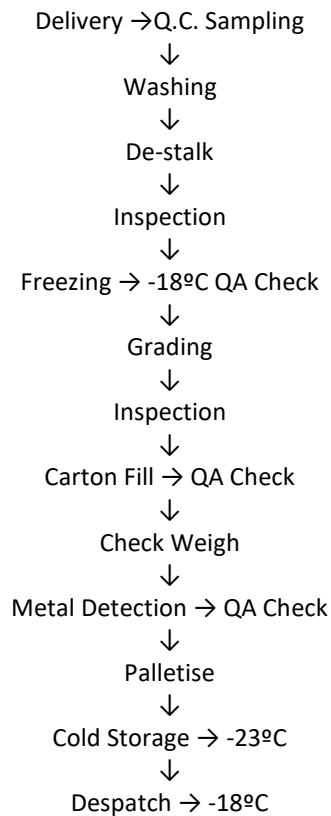
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PROCESS INFORMATION

PROCESS FLOW CHART*

*Note: this is a generic flow chart which does not refer to any specific production site.

BLUEBERRIES



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Issues & Amendments

Issue N°	Amend. N°	Date	Amendments	Compiled by
1	1	01/02/2016	New entry	G. Oberto
2	1	01/05/2017	Defect tolerances – minimum ref samples; Reviewed BB and Traceability info. Added Storage Conditions. Reviewed Food Intolerance table, Flow Chart and Amendment table.	G. Oberto
3	1	31/01/2020	3 Year update – general revision	G. Oberto

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