

ARDO UK LTD PRODUCT SPECIFICATION

Blueberries (Wild)			
Spec ID 4741			
Date of first issue	24/05/04		
Version Number	006		

PACK SIZES

Ardo UK Code	Ardo Article Code	Pack Size	Cases per Pallet
036100		12 x 500g	140
036101		4 x 2.5Kg	81
4741100		1 x 10Kg	64
474130P	N/A	30lbs	70

GENERAL DESCRIPTION OF MATERIAL

Quick frozen Blueberries prepared from fresh clean, sound berries by cleaning, processing and freezing in accordance with good commercial practice. The dimensions of the berries should be:

Nominal diameter 6.5mm

The berries should be frozen free flowing and should possess a clean, delicate natural flavour of Blueberry, with no off flavours present. The Blueberries should exhibit a consistent ripe dark purple/black colour with little variation. The texture of the berries should be good with all berries firm but succulent. Stalks should be absent in a given sample of Blueberries.

SIZE SPECIFICATION

	TARGET	TOLERANCE
LENGTH	N/A	N/A
THICKNESS	N/A	N/A
WIDTH	N/A	N/A
DIAMETER	6.5mm	3-9mm

INGREDIENT DECLARATION

Blueberries (100%)

DEFINITION OF DEFECTS

<u>Foreign Matter (FM)</u> - Any matter not derived from the Blueberry plant, e.g. insects, wood, stones, glass, metal, toxic vegetable matter which will render the product unacceptable.

<u>Foreign Extraneous Vegetable Matter (FEVM)</u> - Any vegetable matter not originating from the Blueberry plant and which is non-toxic.

<u>Extraneous Vegetable Matter (EVM)</u> - Any vegetable material originating from the Blueberry plant, other than the berries.

<u>Colour</u> - Blueberries should possess a good dark purple/black colour, typical of the variety or varieties used as per contract, with little variation in a given sample.

<u>Major Blemish</u> - Insect infestation, rotten area or area of damage affecting 33% or more of a berry.

Minor Blemish - As for major blemish but affecting between 20% and 33 % or more of a berry.

<u>Damaged Berries</u> - Berries that are not whole or complete through natural or mechanical damage or damage of other sorts.

Oversize Berries - Berries that are greater than 9mm in diameter.

<u>Undersize Berries</u> - Berries that are less than 3mm in diameter.

Stalks (attached or loose) - These should be absent in a given sample of Blueberries.

<u>Flavour</u> - The berries should exhibit a flavour typical for the variety or varieties used as per contract.

TOLERANCES FOR DEFECTS

Defects assessed on a 1000g sample - (Frozen)

	A Grade
Foreign Matter	0
FEVM	0
EVM (number)	2
Colour	Good
Major Blemish (% w/w)	5%
Minor Blemish (% w/w)	7%
Damaged Berries (% w/w)	5%
Oversize units (% w/w)	5%
Undersize units (% w/w)	5%
Stalks (number)	5
Flavour	Good, typical

ORGANOLEPTIC

APPEARANCE: Blueberries should exhibit a consistent ripe dark purple/black colour with little variation

AROMA: Clean, delicate natural aroma of Blueberry, with no off odours present

FLAVOUR: Clean, delicate natural flavour of Blueberry, with no off flavours present

TEXTURE: Texture of the berries should be good with all berries firm but succulent.

COUNTRY OF ORIGIN

USA, Canada, Poland

SHELF LIFE AND STORAGE DETAILS

Shelf Life: 18 months from packing

Minimum Shelf Life on delivery: 100 days

Storage frozen: Store at -18°C \pm 3°C.

Storage Defrosted: Keep refrigerated and use within 24 hours.

CODING

Best Before End: MMMYYYY

Batch Coding: XXYDDD: where of XX relates to factory code;

Y is the year; DDD is the Julian date code

ADDITIVES AND PROCESSING AIDS

Chlorinated Water used for washing at 2ppm Product does not contain any Additives.

MICROBIOLOGICAL SPECIFICATION

	n	С	m	M
Total Viable count	5	2	50000/g	500000/g
Coliforms	5	2	500/g	1000/g
E.coli	5	2	10/g	50/g
Yeast	5	2	5000/g	50000/g
Moulds	5	2	1000/g	10000/g
Listeria monocytogenes	5	1	10/g	100/g
Salmonella	5	0	Absent/25g	

Sampling plan based on the International Commission on Microbiological Specifications for Foods system (1986) where:

- n = the number of sample units examined from a lot
- m = the microbiological limit which separates good quality from marginally acceptable quality
- M = the microbiological limit which separates marginally acceptable quality from defective quality
- c = the maximum allowable number of results between m and M

INTOLERANCE INFORMATION

Product Free From	Contains	Comments/ Source
Cereals containing Gluten		
Barley & Barley Derivatives	No	
Kamut & Kamut Derivatives	No	
Oats & Oats Derivatives	No	
Rye & Rye Derivatives	No	
Spelt & Spelt Derivatives	No	
Wheat & Wheat Derivatives	No	
Nuts	INO	
Almond & Almond Derivatives	Na	T
Brazil Nut & Brazil Nut Derivatives	No	
	No	
Cashew Nut & Cashew Nut	No	
Derivatives Derivatives	N.I.	
Hazelnut & Hazelnut Derivatives	No	
Macadamia Nut & Macadamia Nut	No	
Derivatives Derivatives	NI.	
Pecan Nut & Pecan Nut Derivatives	No	
Pistachio Nut & Pistachio Nut	No	
Derivatives		
Queensland Nut & Queensland Nut	No	
Derivatives		
Walnut & Walnut Derivatives	No	
Coconut & Coconut Derivatives	No	
Pine Nuts/ Pine Kernels	No	
Peanuts & Peanut Derivatives	No	
Chestnuts & Chestnut Derivatives	No	
Nuts- Other (state source)	No	
Nut Oils & Nut Oil Derivatives	No	
Seeds		
Sesame Seed & Sesame Seed	No	
Derivatives		
Poppy Seeds & Poppy Seed	No	
Derivatives		
Cotton Seeds & Cotton Seed	No	
Derivatives		
Seed Oil & Seed Oil Derivatives	No	
Celery & Celery Derivatives	No	
Celeriac & Celeriac Derivatives	No	
Eggs & Egg Derivatives	No	
Lupin & Lupin Derivatives	No	
Milk & Milk Derivatives	No	
Mustard & Mustard Derivatives	No	
Soya & Soya Derivatives	No	
Sulphur Dioxide/ Sulphites	No	
>10mg/Kg or 10mg/ Litre		
Fish & Fish Derivatives	No	
Crustacean & Crustacean	No	
Derivatives		
Molluscs & Molluscs Derivatives	No	

Product Free From	Yes/No	Comments
Oil Refined to SCOPE	Yes	
Oil Not Refined to SCOPE	Yes	
Maize/ Corn & Derivatives	Yes	
Rice & Rice Derivatives	Yes	
Spices & Spice Extract	Yes	
Herbs & Herb Extract	Yes	
Yeast & Yeast Extract	Yes	
Fruit & Fruit Derivatives	No	Blueberries
Vegetable & Vegetable Derivatives	Yes	
Leguminous Plants	Yes	
Cocoa / & Cocoa Derivatives	Yes	
Animal & Animal Derivatives	Yes	
Beef & Beef Derivatives	Yes	
Pork & Pork Derivatives	Yes	
Lamb/ Mutton & Lamb/ Mutton	Yes	
Derivatives		
Poultry & Poultry Derivatives	Yes	
Mechanically Recovered Meat	Yes	
Textured Vegetable Protein (TVP)	Yes	
Hydrolysed Vegetable Protein	Yes	
(HVP)		
Additives	Yes	
Natural Colours	Yes	
Artificial Colours	Yes	
Azo Dyes	Yes	
Natural Flavourings	Yes	
Nature Identical Flavourings	Yes	
Artificial Flavourings	Yes	
Flavour Enhancers	Yes	
MSG	Yes	
Artificial Preservatives	Yes	
ВНА	Yes	
BHT	Yes	
Emulsifiers	Yes	
Stablisers	Yes	
Artificial Sweeteners	Yes	
Sugar	Yes	
Molasses	Yes	
Maltodextrin	Yes	
Salt	Yes	
Salt Substitutes	Yes	
Irradiated Ingredients	Yes	
Genetically Modified Material	Yes	

Product Suitability	Yes/No	Comments
Coeliac	Yes	
Lactose Intolerance	Yes	
Vegetarian	Yes	
Ovo-lacto vegetarians	Yes	
Vegan	Yes	
Organic	No	
Halal	No	
Kosher	No	

Signed: Name: Emma James Position: Technologist Date: 15/3/10

NUTRITIONAL INFORMATION

Information is based on values from Mc Cance and Widdowson's Composition of Foods, Electronic Version 2.3.9. Values for Bilberries

	Per 100g	Per 80g Serving	Percentage of GDA* based on women
Energy kJ	135	108	
Energy Kcal	32	25	1.3%
Protein	0.6g	0.5g	1.1%
Carbohydrate	6.9g	5.5g	2.4%
Of which sugars	6.9g	5.5g	6.1%
Of which Starch	0g	0g	
Fat	0.2g	0.2g	0.2%
Of which Saturates	Trace	trace	0.04%
of which	0.1g	0.1g	
Monounsaturated			
of which	0.1g	0.1g	
Polyunsaturated			
Fibre	1.8g	1.4g	6.0%
Sodium	3.0mg	2.4mg	0.1%
Salt Equivalent	7.5mg	6.0mg	0.1%

Guideline Daly Amounts

	Women	Men	Children (5-10yrs)
Energy Kcal	2000	2500	1800
Protein	45g	55g	24g
Carbohydrate	230g	300g	220g
Of which Sugars	90g	120g	85g
Fat	70g	95g	70g
Of which Saturate	20g	30g	20g
Fibre	24g	24g	15g
Sodium	2.4g	2.4g	1.6g
Salt	6g	6g	4g

Vitamins & Minerals

	Per 100g	Per 80g Serving	RDA	Percentage RDA per 80g serving
Vitamin A	5.0µg	4.0µg	800 µg	0.5%
Vitamin C	17.0mg	13.6mg	60 mg	22.7%
Folate/ Folic Acid	6.0µg	4.8µg	200 µg	2.4%
Calcium	12.0mg	9.6mg	800 mg	1.2%
Iron	0.5mg	0.4mg	14mg	2.9%
Zinc	0.2mg	0.2mg	15 mg	1.1%

AMENDMENTS AND UPDATES

Details of changes	Date of Amendment	New Version Number
First issue in this format	18/9/08	005
Revised & updated	15/3/10	006



Ardo UK Limited

Ashford Road, Charing, Ashford, Kent, TN27 0DF, UK Tel: +44 (0)1233 714714 - Central Fax +44 (0) 1233 714777

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WARRANTY

We warrant that this product, intended for food use will meet the requirements of Acts, Regulations and Orders applicable in the United Kingdom relating to the goods supplied, including but not necessarily limited to the following:

The Food Safety Act 1990 and all relevant Regulation's and their amendments.

The Food Hygiene (England) Regulations 2006 and all relevant amendments.

The Materials and Articles in Contact with Food (England) Regulations 2005 and all relevant amendments.

All regulations made as a result of the requirements of European Union Directives and Regulations.

	Accepted on behalf of	Accepted on behalf of Customer:
Company Name:	Ardo UK Ltd	
Signed		
Position	Technologist	
Date	15/3/10	

Please return a signed copy of this page to the Ardo UK Ltd Technical Department

Document Control and review			
Approved by:	Document reference: 3.7.2 Specifications	Created on: 15/03/10 Issue 6	
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