



ARDO UK PRODUCT SPECIFICATION

Product name:	IQF Fruit Berry Mix 4x2.5kg
Product code:	032100
External code:	XBE610
Date of first version :	04/08/2004
Date of revision:	11/05/2017
Version number:	12

DESCRIPTION



Legal name	Quick-frozen Fruit Berry Mix
Latin name	<i>Fragaria × ananassa</i> , <i>Ribes rubrum</i> , <i>Vaccinium corymbosum</i> , <i>Rubus laciniatu</i> , <i>Rubus idaeu</i> , <i>Ribes nigrum</i>
Origin	Canada, USA, Chile, Argentina, Serbia, Morocco, Spain, Turkey, Peru, Poland
Process description	Each of the fruits shall be produced from clean, sound berries by cleaning, processing, sorting and freezing. The process should ensure stability of colour and flavour and product temperature shall be lower than -18°C.
Cut size	see size definition of each ingredient
Ingredient declaration	Redcurrants (25%), Strawberries (20%), Blackberries (17.5%), Blackcurrants (15%), Whole and Broken Raspberries (15%), Cultivated Blueberries (7.5%)

Organoleptic

Appearance	The berries should exhibit a ripe colour varying from mid red through to dark red/purple with each component within the mix being typical to the varieties used.
Aroma	Clean, delicate natural aroma, with each individual item contributing to an overall sweet product aroma with no off odours or taints present.
Flavour	Clean, delicate natural flavour, with each individual item contributing to an overall sweet product flavour with no off flavours present.
Texture	The texture of the berries should be good with all berries firm but succulent.



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MICROBIOLOGICAL STANDARDS (cfu/g)

	MAXIMUM
Total Viable Count	500,000
Coliforms	1,000
E. coli	50
Yeast	50,000
Moulds	10,000
<i>Listeria monocytogenes</i>	100
<i>Salmonella</i>	absent/25g

AVERAGE NUTRITIONAL VALUES

	per 100 g	unit	% RI*	RI*
Energy	155	kJ	2%	8400
Energy	37	kcal	2%	2000
Fat	0.2	g	< 1%	70
of which saturates	0.00	g	< 1%	20
Carbohydrate	5.6	g	2%	260
of which sugars	5.6	g	6%	90
Fibre	4.6	g	19%	24
Protein	1.0	g	2%	50
Salt	0.01	g	< 1%	6

*Reference intake of an average adult (8400 kJ / 2000 kcal)

Source	Based on Nutricalc Software FX3 v.40 (cf. McCance & Widdowson 7th Edition)
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ALLERGEN INFORMATION

Allergens according to the EU Regulation 1169/2011 and its modifications:

	Product contains (+) or is free from (-)
Gluten from cereals: wheat, rye, barley, oats, spelt, kamut or their hybridised strains, and products thereof; except: 1/ wheat based glucose syrups including dextrose, 2/ wheat based maltodextrins, 3/ glucose syrups based on barley, 4/ cereals used for making alcoholic distillates including ethyl alcohol of agricultural origin.	-
crustaceans and products thereof	-
eggs and products thereof	-
fish and products thereof; except: 1/ fish gelatine used as carrier for vitamin or carotenoid preparations, 2/ fish gelatine or Isinglass used as fining agent in beer and wine	-
peanuts and products thereof	-
soybeans and products thereof; except: 1/ fully refined soybean oil and fat, 2/ natural mixed tocopherols (E306), natural D-alpha tocopherol, natural D-alpha tocopherol acetate, natural D-alpha tocopherol succinate from soybean sources, 3/ vegetable oils derived phytosterols and phytosterol esters from soybeans sources, 4/ plant stanol ester produced from vegetable oil sterols from soybean sources	-
milk and products thereof (including lactose); except: 1/ whey used for making alcoholic distillates including ethyl alcohol of agricultural origin, 2/ lactitol	-
nuts i.e. almonds, hazelnuts, walnuts, cashews, pecan nuts, brazil nuts, pistachio nuts, macadamia nuts and queensland nuts and products thereof; except: nuts used for making alcoholic distillates including ethyl alcohol of agricultural origin	-
celery and products thereof	-
mustard and products thereof	-
sesame seeds and products thereof	-
sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO ₂	-
lupin and products thereof	-
molluscs and products thereof	-

Other allergens (according to LeDa-list):

	Product contains (+) or is free from (-)
Beef	-
Pork	-
Chicken	-
Corn/Maize	-
Cacao	-
Legumes/pulses	-
Glutamate	-
Coriander	-
Carrot	-



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Free from:	
	Product contains (+) or is free from (-)
Oil refined to SCOPA std	-
Oil not refined to SCOPA std	-
Maize/Corn & derivates	-
Rice & rice derivates	-
Spices & spice extracts	-
Herbs & herb extracts	-
Yeast & Yeast extract	-
Fruit & Fruit Derivatives	+
Vegetable & Vegetable Derivatives	-
Leguminous Plants	-
Other:	
	Product contains (+) or is free from (-)
Additives	-
Natural Colours	-
Artificial Colours	-
Azo Dyes	-
Natural Flavourings	-
Flavouring Substances	-
Flavour Enhancers	-
MSG	-
Artificial Preservatives	-
BHA	-
BHT	-
Emulsifiers	-
Stabilisers	-
Artificial Sweeteners	-
Sugar	-
Molasses	-
Maltodextrin	-
Salt	-
Salt Substitutes	-
Irradiated Ingredients	-
Genetically Modified Material	-

Suitable for			
	Yes	No	Remark
Kosher	V		not certified
Halal	V		not certified
Coeliacs	V		
Diabetics	V		
Lactose intolerant	V		
Vegetarians	V		
Ovo-lacto vegetarians	V		
Vegans	V		
Nut/seed allergy	V		



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DEFECTS - Redcurrant

DEFINITIONS

Foreign Matter (FM): Any matter of non-vegetable origin such as stones, soil, insect, wood, metal, plastic, and any toxic vegetation or anything which will render the product unacceptable.

Foreign Extraneous Vegetable Matter (FEVM): Any vegetable matter not originating from the plant and which is non-toxic.

Extraneous Vegetable Matter (EVM): Any vegetable material originating from the plant, but excluding the fruit.

Colour Variants: Redcurrants should possess a good red colour typical of the variety used as per contract with little variation in a given sample. Any berries which are conspicuously different in colour, such as 'pales' or under-ripe shall be minimal.

Minor Blemish: As for major blemish but affecting between 20% and 30% of a berry

Major Blemish: Insect infestation, rotten area or area of damage affecting 33% or more of a berry.

Damaged Berries: Berries that are not whole or complete through natural or mechanical damage or damage of other sorts

Oversize Berries: Berries that are greater than 15mm in diameter.

Undersize Berries: Berries that are less than 5mm in diameter.

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

Flavour: The berries should exhibit a flavour typical for the variety used as per contract, i.e. succulent and slightly sweet.

NOMINAL SIZE

5-15mm

TOLERANCES

Assessed on a 1000g sample – Frozen	B grade
FM	0
FEVM	0
EVM	5
colour variants - No.	20
Major Blemish (%w/w)	5%
Minor Blemish (%w/w)	7%
Damaged Currants (%w/w)	5%
Oversize (%w/w)	7%
Undersize (%w/w)	7%
Stalk - No.	10
Flavour	Good, typical



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DEFECTS - Strawberries

DEFINITIONS

Foreign Matter (FM): Any matter of non-vegetable origin such as stones, soil, insect, wood, metal, plastic, and any toxic vegetation or anything which will render the product unacceptable.

Foreign Extraneous Vegetable Matter (FEVM): Any vegetable matter not originating from the Strawberry plant and which is non-toxic.

Extraneous Vegetable Matter (EVM): Any vegetable material originating from the Strawberry plant excluding the berry.

Welding: Two or more strawberries welded together, and which cannot be readily separated without causing damage to the berry. Number of berries affected shall be recorded. These strawberries shall then be separated and assessed for the remainder of the defects.

Under ripe Berries: White or green more than 25% of the surface area as a result of immaturity.

Blemishes and over-ripe berries: Discoloured or blemished areas caused by mould, bird damage, slugs etc. which are greater than an equivalent circle 6mm in diameter, or an aggregate of blemishes equivalent to a circle 6mm in diameter on the same berry.

Damaged Berries: Any strawberry which is broken, squashed or seriously malformed in appearance

Malformed: Berries which are seriously malformed, e.g. those with monkey faces (noses) caused by faulty fertilization.

Attached Calyx/stalk: incomplete removal of Calyx or stalk, where part of same remains attached to the berry

Size Grading: To be determined by measuring the diameter of the berry at its widest point. 90% of the sample should lie within the specified size range. (Min 90% by weight)

NOMINAL SIZE

15-26mm

TOLERANCES

Assessed on a 1000g sample - Frozen	
Welding (number)	4
Foreign Matter	0
FEVM	0
E.V.M. (number)	1
Size	90% within spec.
Assessed on a 1000g sample - Defrosted	
Under-ripe (number)	10
Major Blemish (number)	3
Damaged (number)	3
Malformed (number)	3
Attached Calyx/stalk (number)	4



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DEFECTS - Blackberries

DEFINITIONS

Foreign Matter (FM): Any matter of non-vegetable origin such as stones, soil, insect, wood, metal, plastic, and any toxic vegetation or anything which will render the product unacceptable.

Extraneous Vegetable Matter (EVM): any harmless vegetable matter such as leaves, leaf pieces or straw

Welding: When two or more blackberries are fused together by freezing and cannot be separated without damage

Under ripe Berries: berries, which do not have a dark purple/black colour

Moulded berries: If an area greater than 6mm is moulded or rotten.

Colour Variants: these are berries that are conspicuously different in colour from the natural colour of the variety or varieties used as per contract.

Minor Blemish: any of the above major blemishes affecting between 20% and 33% of the blackberry

Major Blemish: discolouration, insect infestation, or rotten area greater than 33% of the blackberry

Damaged and broken Berries: these are berries that are not whole or complete

Attached Calyx/stalk: these should be absent in a given sample of blackberries.

Under- size: berries with a diameter smaller than 10 mm

NOMINAL SIZE

>17mm in diameter

TOLERANCES

Assessed on a 1000g sample – Frozen	A grade
F.M.	0
E.V.M.	0
Clumps	2
Major blemish	12
Minor blemish	25%
Under-size berries	6%
Damage	4%
Colour variants	10%
Attached stalk	5

Reviewable monitoring of dimension - target 70% >18mm length



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DEFECTS - Blackcurrants

DEFINITIONS

Foreign Matter (FM): Any matter not derived from the blackcurrant plant, e.g. insects, wood, stones, glass, metal, toxic vegetable matter or anything which will render the product unacceptable

Foreign Extraneous Vegetable Matter (FEVM.): Any vegetable matter not originating from the blackcurrant plant and which is non-toxic.

Extraneous Vegetable Matter (EVM): Any vegetable material derived from the blackcurrant plant, other than the Blackcurrant, e.g. blackcurrant leaves.

Colour: Blackcurrants 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. Colour Variants - Currants <50% surface area not of 'ripe' colour.

Minor Blemish: As for major blemish but affecting between 20% and 30% of a currant

Major Blemish: Insect infestation, rotten area or area of damage affecting 33% or more of a currant.

Damaged: Currants those are not whole or complete through natural or mechanical damage or damage of other sorts.

Stalk (attached or loose) - These should be absent in a given sample of blackcurrants

Over-size: Currants those are greater than 15mm in diameter.

Under- size: Currants that are less than 9mm in diameter.

Flavour: The currants should exhibit a flavour typical for the variety or varieties used as per contract. Thaw at ambient for 2 hours prior to flavour evaluation.

NOMINAL SIZE

12mm in diameter

TOLERANCES

Assessed on a 1000g sample – Frozen	B grade
FM	0
FEVM	0
EVM	5
colour variants (number)	20
Major Blemish (%w/w)	5%
Minor Blemish (%w/w)	7%
Damaged Currants (%w/w)	5%
Oversize (%w/w)	7%
Undersize (%w/w)	7%
Stalk (number)	10
Flavour	Good, typical

Reviewable monitoring of dimension: Target 70% >12mm



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DEFECTS - Raspberries

DEFINITIONS

Welding: (IQF Berries only) - Where two or more berries are fused together by freezing and cannot be readily separated without damaging the fruit. The number of berries occurring in clumps should be weighed.

Foreign Matter (FM): Any matter of non-vegetable origin such as stones, soil, insect, wood, metal, plastic, and any toxic vegetation or anything which will render the product unacceptable.

Foreign Extraneous Vegetable Matter (FEVM.): Any vegetable matter not originating from the Raspberry plant and which is non-toxic.

Extraneous Vegetable Matter (EVM): Any vegetable material originating from the Raspberry plant, but excluding the berries.

Under ripe Berries: Where more than one third of the berry is which or green as a result of immaturity. Unfertilised, small undeveloped berries are also included in this category.

Moulded berries: these are berries which are completely rotten or have more than 25% of their surface covered in mould.

Minor Blemish: These are berries which are discoloured or blemished by wind rub, mould, bird damage, or other agencies so that an area of the berry equivalent to a circle 2 - 6mm in diameter is affected either as one blemish or as an aggregate of blemishes on the same berry.

Major Blemish: These are berries which are discoloured or blemished by wind rub, mould, bird damage or other agencies so that an area of the berry greater than an equivalent circle 6mm in diameter is affected either as one blemish or an aggregate of blemishes on the same berry.

Crushed Berries: These are whole berries whose sides have been flattened and which possess burst drupelets

Broken Berries: These are fruits where less than half the berry remains intact, and includes fragments.

Unplugged Berries: These are berries where the plug remains in the fruit. It may or may not be attached to the calyx or stalk.

TOLERANCES

Assessed on a 500g sample	Specifications
Welding (%w/w) - IQF Berries only	10%
FM	0
FEVM	0
EVM	2
Under-ripe berries (No)	4
Mouldy Berries (No.)	0
Major Blemishes (No.)	8
Minor Blemishes (No.)	20
Crushed Berries (No.)	10
Whole Berries / Crumb (% w/w)	50%
Unplugged Berries (No.)	2



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DEFECTS - Blueberries

DEFINITIONS

Foreign Matter (FM): Any matter not derived from the Blueberry plant, e.g. wood, glass, plastic, stones, toxic vegetable matter, or anything that would render the product unacceptable.

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

Extraneous Vegetable Matter (EVM): Any vegetable material originating from the Blueberry plant, e.g. root, leaves.

Colour: Good, typical of variety or varieties used, as per contract, no white berries to be included.

Minor Blemish: As for major blemish but affecting between 20% and 33% of a berry

Major Blemish: Insect infestation, damage, mould, rotten area or other type of blemish affecting 33% or more of a berry.

Damaged: berries those are not whole or complete due to mechanical damage, natural damage or damage of other sorts.

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

Over-size: berries those are larger than 15mm in length.

Under- size: berries those are smaller than 9mm in length.

Flavour: Good, typical of variety or varieties used.

NOMINAL SIZE

12mm in diameter

TOLERANCES

Assessed on a 1000g sample – Frozen	A grade
FM	0
FEVM	0
EVM	2
colour variants (number)	5
Major Blemish (%w/w)	5%
Minor Blemish (%w/w)	7%
Damaged Currants (%w/w)	5%
Oversize (%w/w)	5%
Undersize (%w/w)	5%
Stalk (number)	5
Flavour	Good, typical



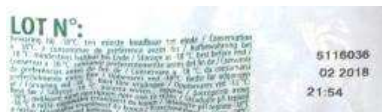
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PACKAGING

Net weight	10 kg
Pack Type	4x2.5kg
Packaging	PE bag in cardboard box
Inner Packaging	300mm
Outer Packaging	385/255/170mm
Palletisation	9 cardboard boxes / layer
Pallet	81 cardboard boxes / pallet
Lot number	XXYYDDD: where XX relates to factory code, YY is the year, DDD is the Julian date code
Best Before	24 months
Minimum Shelf Life on delivery	100 days
Storage conditions	Keep frozen at -18°C or below
Storage Defrosted	Keep refrigerated and use within 24 hours.

Inner pack coding



Outer case coding



Inner packaging/Outer case



RECOMMENDED USE

Defrost: Remove frozen fruit from all packaging and place on serving plate. Defrost thoroughly for a minimum of 21/2 hours at room temperature or for a minimum of 12 hours in the refrigerator. Keep refrigerated once defrosted. Use within 24 hours.



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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 Regulations and their amendments.

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

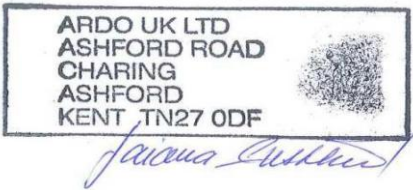
The Materials and Articles in Contact with Food (England) Regulations 2005 and all relevant amendments.

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

GENERAL STATEMENTS

Pesticides	in accordance with EC regulation 396/2005 and its modifications
Heavy metals, mycotoxins and nitrates	in accordance with EC regulation 1881/2006 and its modifications
GMO	the product is free from gmo, according to the EC

APPROVAL

	Approved on behalf of:	Approved on behalf of:
Company name:	Ardo UK Limited Ashford Road, Charing, Ashford, Kent, TN27 0DF, UK Tel: +44 (0)1233 714714 Fax +44 (0)1233 714777	
Name:	Laiana SUSTKOVA	
Function:	Specifications Officer	
Date:	11/05/2017	
Signature + stamp:		
Remarks:		



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REVISIONS

Reason for revision	Date
External code, Revisions added	11/05/2017