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Product Specification

10 - 20mm Broccoli Floret

Date: 1st February 2017

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PACK SIZE 1 x 10kg

ORIGIN: Spain/ China/ 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 Broccoli 100% Declare as: Broccoli
(*Brassica oleracea var. italica*)

PROCESSING Broccoli is harvested, delivered to the factory to be floretted. Each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, blanched, frozen, size graded and filled into bulk palletainers. The frozen broccoli is sampled and assessed against specification. The palletainers are then labelled and transferred to the cold store, where they are stored at -18°C until required for packing.

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

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QUALITY CONTROL Checks are carried out on the following: -

Processing: -	Raw material Peroxidase Final Product Temperature
Packing: -	Metal detection Check weighing Final product physical defect levels Organolepsis Case quantity Case sealing Case coding and print quality

DEFECT TOLERANCES**Per 1000g**

Clump	5%w/w
Foreign Matter	Nil
EVM	1
Stalk	2%w/w
Stalk Length	40
Fragments and Dust <5mm	2% w/w
Overmature	3
Colour Defect	4
Major Blemish	8
Minor Blemish	10
Out of size	20%w/w

DEFINITIONS OF DEFECTS**Clumps**

These are where three or more pieces of broccoli are frozen together which cannot be readily separated without causing damage to the product.

Foreign Material

This includes any material not derived from the broccoli plant or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, sand, grit, plastic or any other material which will render the product unacceptable.

EVM

This includes any vegetable material that is derived from the broccoli plant or other harmless vegetable matter such as leaves or leaf pieces.

Fragments and Dust

These are small pieces of broccoli less than 5mm in any dimension.

Stalk

These are units which are completely devoid of the broccoli beads and branching of the individual florets and are greater than 25mm in any dimension.

Stalk Length

This is where the stalk (measured from the last branching of the floret) is greater than 65mm in length.

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Overmature

This includes any floret which has one or more buds showing yellow petals. This shall not be confused with paler under parts (lacking chlorophyll), which are characteristic of cut heads.

Colour Defects

This includes florets which have a distinct area of brown or purple to the floret surface which is greater than 20mm in diameter.

Major Blemish

This includes broccoli that is blemished to the extent that the area affected is greater than 6mm in diameter, either as a single blemish or an aggregate of blemishes on the same piece.

Minor Blemish

This includes broccoli that is blemished to the extent that the area affected is between 2mm and 6mm in diameter, either as a single blemish or an aggregate of blemishes on the same piece. Blemishes less than 2mm in diameter shall be ignored.

Out of Size

This is where the diameter of any floret head exceeds 20mm when measured across the widest part of the smallest diameter, or where the floret head is less than 10mm when measured across the widest part of the smallest diameter.

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

ORGANOLEPSIS**COLOUR**

Fairly bright pale green but may be slightly non-uniform.

FLAVOUR

Characteristic broccoli flavour, with only slight bitterness.

TEXTURE

Fairly uniform, flesh may be slightly soft, skins may be slightly tough.



Average Sample

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MICROBIOLOGICAL

Organism	Target	Maximum
T V C @ 30°C	5×10^4	1×10^6
Total Coliforms	5×10^2	5×10^3
E. coli	1×10^1	1×10^2
Yeasts & Moulds	5×10^2	5×10^3
Staph aureus	10/g	1×10^2
Salmonella	Absent in 25g	Absent in 25g
Listeria monocytogenes	Absent in 25g	1×10^2

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 e.g. if packed in May 2017 then BEST BEFORE END MAY 2019. Minimum BB date on delivery: 3 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 broccoli typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	33	McCance & Widdowson 6 th Edition
Energy - kJ	138	McCance & Widdowson 6 th Edition
Moisture	88.2g	McCance & Widdowson 6 th Edition
Carbohydrate	1.8g	McCance & Widdowson 6 th Edition
- as sugars	1.5g	McCance & Widdowson 6 th Edition
- as polyols	0.0g	McCance & Widdowson 6 th Edition
- as starch	0.1g	McCance & Widdowson 6 th Edition
Fat	0.9g	McCance & Widdowson 6 th Edition
- as saturates	0.2g	McCance & Widdowson 6 th Edition
- as mono unsaturates	0.1g	McCance & Widdowson 6 th Edition
- as poly unsaturates	0.5g	McCance & Widdowson 6 th Edition
Protein	4.4g	McCance & Widdowson 6 th Edition
Fibre	2.6g	McCance & Widdowson 6 th Edition
Sodium	8mg	McCance & Widdowson 6 th Edition
Vitamin A	96µg	McCance & Widdowson 6 th Edition
Vitamin B ₆	0.14mg	McCance & Widdowson 6 th Edition
Vitamin B ₁₂	0µg	McCance & Widdowson 6 th Edition
Vitamin C	87mg	McCance & Widdowson 6 th Edition
Vitamin D	0µg	McCance & Widdowson 6 th Edition
Vitamin E	1.3mg	McCance & Widdowson 6 th Edition
Thiamin	0.10mg	McCance & Widdowson 6 th Edition
Riboflavin	0.06mg	McCance & Widdowson 6 th Edition
Niacin	0.9mg	McCance & Widdowson 6 th Edition
Folic Acid	90µg	McCance & Widdowson 6 th Edition
Biotin	0µg	McCance & Widdowson 6 th Edition
Pantothenic Acid	0mg	McCance & Widdowson 6 th Edition
Calcium	56mg	McCance & Widdowson 6 th Edition
Phosphorus	87mg	McCance & Widdowson 6 th Edition
Iron	1.7mg	McCance & Widdowson 6 th Edition
Magnesium	22mg	McCance & Widdowson 6 th Edition
Zinc	0.6mg	McCance & Widdowson 6 th Edition
Iodine	2µg	McCance & Widdowson 6 th Edition
Potassium	370mg	McCance & Widdowson 6 th Edition

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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: 1st May 2017**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: 1st May 2017

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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/Crustaceans/Molluscs	NO	
Cereals (**)	NO	
Gluten	NO	
Yeast/Yeast Extract	NO	
Soya/Soya Derivatives	NO	
Fruit & Fruit Derivatives	NO	
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/Celariac	NO	
Lupins	NO	
*Including any product derived from slaughtered animals, e.g. gelatine, rennet **Including wheat, corn, barley, rye, oats, etc. Is the material suitable for: Vegetarians? Y / N Halal? Y / N (Not Certified) Organic? Y / N Vegans? Y / N Kosher? Y / N (Not Certified)		
<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>		

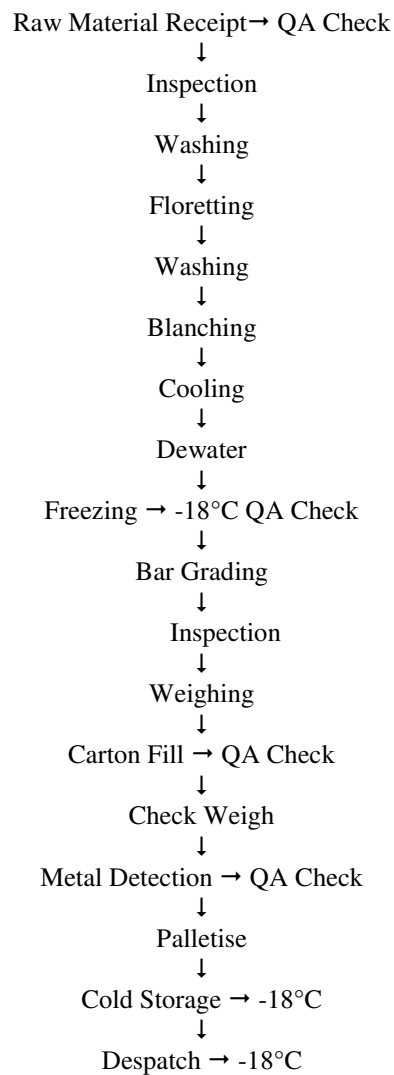
FOOD ADDITIVES

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

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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.

BROCCOLI FLORET

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COSHH Data For Frozen Vegetables

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

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

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


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

Please check our website (www.foodnet.ltd.uk) for updates on this spec.

Signed on behalf of Foodnet Ltd:-

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 1st May 2017

Signed on behalf of the Customer:-

Name:

Job Title:

Signature:

Date:

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