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Product Specification

25-30mm Button Brussel Sprouts

Date: 1st May 2017

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PACK SIZE 1 x 10kg

ORIGIN: Belgium

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 Brussels Sprouts 100% Declare as: Brussel Sprouts
(*Brassica oleracea* var. *gemmifera*)

PROCESSING Sprouts are mechanically harvested and delivered to the factory. 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 sprouts are sampled and assessed against specification. The palletainers are then labelled and transferred to the cold store, where they are stored at -23°C until required for packing.

PACKING During packing the brussel sprouts 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.

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QUALITY CONTROL Checks are carried out on the following: -

Processing: -	Raw material Final Product Peroxidase 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	Tolerance
Foreign Matter	Nil
E.V.M.	1
Loose Leaves	3
Perforated Leaves	6% w/w
Brown Butts	2%w/w
Major Butts	5
Badly Formed	7
Internal Browning	10
Blemish	10% w/w
Mechanically Damaged	5
Out of Size (Dia < 25mm; D>30mm)	20%w/w

DEFINITIONS OF DEFECTS**Foreign Material**

This includes any material neither derived from the sprout plant nor 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 sprout plant or other harmless vegetable matter such as petiole stump attached to the sprout. It does not include loose leaves or leaf fragments which have become separated from the sprout.

Loose Leaves

These are leaves or fragments of leaves which have become detached from the sprout.

Blemish

This includes sprouts that are blemished to the extent that the area affected is greater than 2mm in diameter, either as a single blemish or an aggregate of blemishes on the same sprout. Blemishes less than 2mm in diameter shall be ignored.

Brown Butts

Sprouts exhibiting significant brown discolouration on the cut surface of the butt.

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Perforated Leaves

These are sprouts with external leaves which have perforations caused by mechanical or insect means.

Brown Butts

Sprouts exhibiting significant brown discolouration on the cut surface of the butt.

Internal Browning

Sprouts with an internal brown area.

Badly Formed

These are sprouts which are rosetted or composed of loose leaves (blown) or where the leaves fail to meet over the head of the sprout. This also includes loose base structure and secondary grown (budding).

Mechanically Damaged

This includes sprouts mechanically damaged to the extent that the sprout is partially severed to at least the centre of the sprout, or has a macerated or crushed appearance, or where more than a quarter of the sprout has been removed. This includes overtrimmed, spiky sprouts (see illustration), or yellow sprouts. An overtrimmed sprout is one where too much base material has been cut away causing excessive loss of outer leaves.

Out of size

This includes sprouts with a diameter less than 25mm or greater than 30mm.

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 (Carried out on a cooked sample.)**COLOUR**

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

FLAVOUR

Characteristic Brussels sprout flavour, with only slight bitterness.

TEXTURE

Tender and firm, with a yielding bite. Stalks may be slightly fibrous.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
T V C @ 30°C	1 x 10 ⁵	1.5 x 10 ⁶
Total Coliforms	1 x 10 ³	5 x 10 ³
E. coli	1 x 10 ¹	1 x 10 ²
Staph aureus	1 x 10 ¹	1 x 10 ²
Yeasts	1 x 10 ³	3 x 10 ³
Moulds	5 x 10 ²	1.5 x 10 ³
Salmonella	Absent in 25g	Absent in 25g
Listeria monocytogenes	Absent in 25g	1 x 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 hourly using 3.5mm Ferrous and non-Ferrous & 4.5mm Stainless steel test pieces.

BEST BEFORE DATE

Product shall be twenty four months following the month of packing e.g. if packed in May 2016 then BEST BEFORE END MAY 2018.

TRACEABILITY INFO:

Production date or Lot number printed on the label plus 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 brussel sprouts typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	42	McCance & Widdowson 6 th Edition
Energy - kJ	177	McCance & Widdowson 6 th Edition
Moisture	84.3g	McCance & Widdowson 6 th Edition
Carbohydrate	4.1g	McCance & Widdowson 6 th Edition
- as sugars	3.1g	McCance & Widdowson 6 th Edition
- as polyols	0.0g	McCance & Widdowson 6 th Edition
- as starch	0.8g	McCance & Widdowson 6 th Edition
Fat	1.4g	McCance & Widdowson 6 th Edition
- as saturates	0.3g	McCance & Widdowson 6 th Edition
- as mono unsaturates	0.1g	McCance & Widdowson 6 th Edition
- as poly unsaturates	0.7g	McCance & Widdowson 6 th Edition
Protein	3.5g	McCance & Widdowson 6 th Edition
Fibre	4.1g	McCance & Widdowson 6 th Edition
Sodium	6mg	McCance & Widdowson 6 th Edition
Vitamin A	36ug	McCance & Widdowson 6 th Edition
Vitamin B ₆	0.37mg	McCance & Widdowson 6 th Edition
Vitamin B ₁₂	0.0mg	McCance & Widdowson 6 th Edition
Vitamin C	115mg	McCance & Widdowson 6 th Edition
Vitamin D	0.0ug	McCance & Widdowson 6 th Edition
Vitamin E	1.0mg	McCance & Widdowson 6 th Edition
Thiamin	0.15mg	McCance & Widdowson 6 th Edition
Riboflavin	0.11mg	McCance & Widdowson 6 th Edition
Niacin	0.2mg	McCance & Widdowson 6 th Edition
Folic Acid	135ug	McCance & Widdowson 6 th Edition
Biotin	0.4ug	McCance & Widdowson 6 th Edition
Pantothenic Acid	1.0mg	McCance & Widdowson 6 th Edition
Calcium	26mg	McCance & Widdowson 6 th Edition
Phosphorus	77mg	McCance & Widdowson 6 th Edition
Iron	0.7mg	McCance & Widdowson 6 th Edition
Magnesium	8.0mg	McCance & Widdowson 6 th Edition
Zinc	0.5mg	McCance & Widdowson 6 th Edition
Iodine	1.0µg	McCance & Widdowson 6 th Edition
Potassium	450mg	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>		

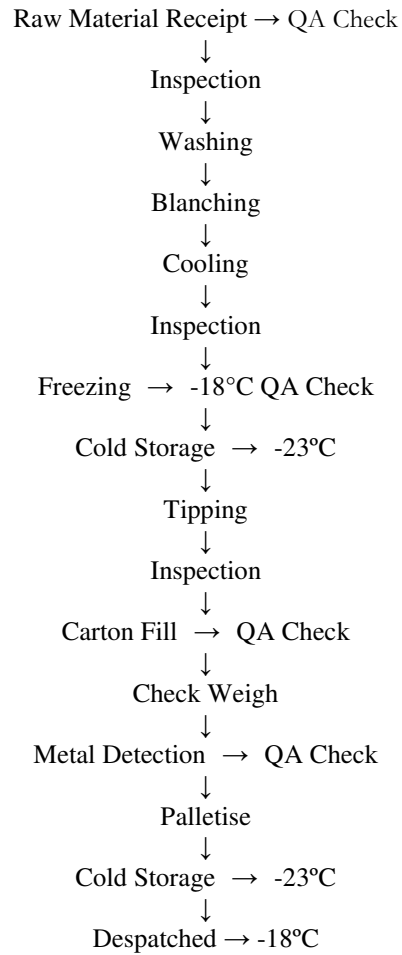
FOOD ADDITIVES

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.

BRUSSELS SPROUTS

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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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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

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