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Product Specification

10mm Diced Fennel

Date: 1st May 2017

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PACK SIZE 1 x 10kg

ORIGIN: Belgium/ Netherlands

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 Fennel 100% Declare as: Fennel
(*Foeniculum vulgare*)

PROCESSING Fennel is harvested, trimmed, delivered to the factory. Each load is sampled and assessed for foreign material and physical defects. The load is then washed, diced, blanched, cooled, frozen and filled into bulk palletainers. Frozen fennel 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 fennel is 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 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

<u>Per 1000g</u>	Clumps	5% w/w
	Foreign Material	Nil
	EVM	1
<u>Per 500g</u>	Major Blemish	6
	Minor Blemish	12
	Oxidation	15
	Badly Cut (>20mm)	10
	Undersize (<7mm)	15% w/w

DEFINITIONS OF DEFECTS

Clumps

These are where three or more dice are frozen together which cannot be separated without causing damage to the dice.

Foreign Material

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

Extraneous Vegetable Matter (EVM)

Vegetable material derived from the fennel plant other than the bulb e.g. pieces of leaf etc. Vegetable material not from the fennel plant will be counted as Foreign material.

Major Blemish

This includes fennel dice that are 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 dice.

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Minor Blemish

This includes fennel dice that are 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 dice. Blemishes less than 2mm in diameter shall be ignored.

Oxidation

This includes pieces with oxidation: Pieces that have a dark brown colour due to the oxidation.

Badly Cut

This includes any pieces which have not been clearly separated or which are more than twice the nominal size in any dimension.

Undersize

This includes pieces which are less than 7mm in any dimension.

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**

Characteristic creamy white up to light green.

FLAVOUR

Characteristic anise-like flavour

TEXTURE

Slightly firm.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
T V C @ 30°C	1×10^5	1.5×10^6
Total Coliforms	1×10^3	1×10^4
E. coli	10	1×10^2
Yeasts & Moulds	1×10^3	5×10^3
Staph aureus	10	1×10^2
Salmonella	Absent in 25g	Absent in 25g
Listeria mono	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 fennel typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	12	McCance & Widdowson 6 th Edition
Energy - kJ	50	McCance & Widdowson 6 th Edition
Moisture	94.2g	McCance & Widdowson 6 th Edition
Carbohydrate	1.8g	McCance & Widdowson 6 th Edition
- as sugars	1.7g	McCance & Widdowson 6 th Edition
- as polyols	Trace	McCance & Widdowson 6 th Edition
- as starch	0.1g	McCance & Widdowson 6 th Edition
Fat	0.2g	McCance & Widdowson 6 th Edition
- as saturates	Trace	McCance & Widdowson 6 th Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 th Edition
- as poly unsaturates	Trace	McCance & Widdowson 6 th Edition
Protein	0.9g	McCance & Widdowson 6 th Edition
Fibre	2.4g	McCance & Widdowson 6 th Edition
Sodium	11mg	McCance & Widdowson 6 th Edition
Vitamin A	0.0µg	McCance & Widdowson 6 th Edition
Vitamin B ₆	0.06mg	McCance & Widdowson 6 th Edition
Vitamin B ₁₂	0µg	McCance & Widdowson 6 th Edition
Vitamin C	5mg	McCance & Widdowson 6 th Edition
Vitamin D	0.0µg	McCance & Widdowson 6 th Edition
Vitamin E	0.0mg	McCance & Widdowson 6 th Edition
Thiamin	0.06mg	McCance & Widdowson 6 th Edition
Riboflavin	0.01mg	McCance & Widdowson 6 th Edition
Niacin	0.6mg	McCance & Widdowson 6 th Edition
Folic Acid	42µg	McCance & Widdowson 6 th Edition
Biotin	0.0µg	McCance & Widdowson 6 th Edition
Pantothenic Acid	0.0mg	McCance & Widdowson 6 th Edition
Calcium	24mg	McCance & Widdowson 6 th Edition
Phosphorus	26mg	McCance & Widdowson 6 th Edition
Iron	0.3mg	McCance & Widdowson 6 th Edition
Magnesium	8mg	McCance & Widdowson 6 th Edition
Zinc	0.5mg	McCance & Widdowson 6 th Edition
Iodine	0µg	McCance & Widdowson 6 th Edition
Potassium	440mg	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/Crustations/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>		

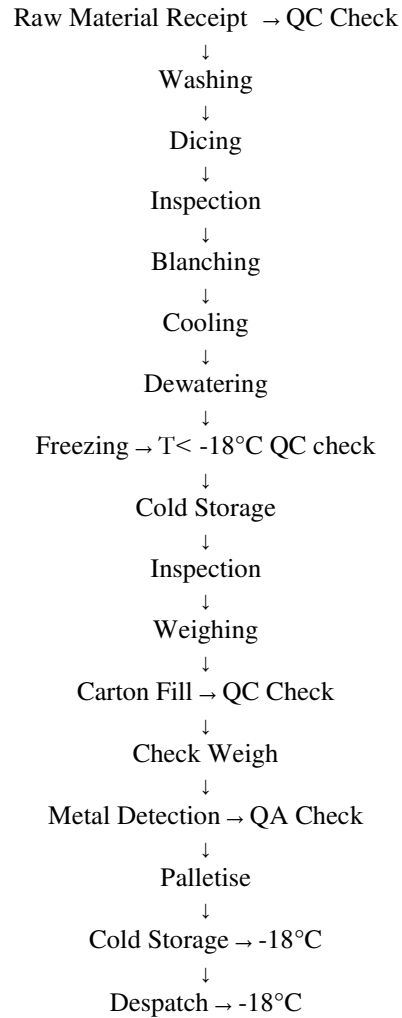
FOOD ADDITIVES

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.

DICED FENNEL

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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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