



Head Office: The Old Grammar School, 3-7 Market Square, Amersham, Bucks. HP7 0DF  
Tel: (44) 1494 434600 Email: [foodnettechnical@foodnet.ltd.uk](mailto:foodnettechnical@foodnet.ltd.uk)

| Technical Specification                       |                                   |                                |
|-----------------------------------------------|-----------------------------------|--------------------------------|
| <b>Product:</b><br>Cauliflower Floret 40-60MM | <b>Last Update:</b><br>31/01/2020 | <b>Product Code:</b><br>CAU008 |

**PACK SIZE** 1 x 10kg;

**ORIGIN:** France / Belgium / China / Spain

**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** Cauliflower Florets 100% Declare as: Cauliflowe  
(*Brassica oleracea var. botrytis L.*)

**PROCESSING** Cauliflower curd is harvested by hand and transferred to floretting stations or directly 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 and filled into bulk palletainers. The frozen florets are 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 cauliflower is inspected before weighing and filling into blue poly lined cartons. The cartons are Best Before and Production date coded, checkweighed and metal detected, palletised and stretch wrapped before being returned to store at -18°C to await despatch to the UK at -18°C.

**QUALITY CONTROL** Checks are carried out on the following: -

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

|                     |                           |                |                           |                             |
|---------------------|---------------------------|----------------|---------------------------|-----------------------------|
| Doc Ref:<br>PRO-SPE | Issue date:<br>31.01.2020 | Issue No:<br>3 | Prepared by:<br>G. Oberto | Authorised by:<br>Rhys Owen |
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## **DEFECT TOLERANCES**

### **Per 1000g**

|                      |        |
|----------------------|--------|
| Clumps               | 4      |
| Foreign Matter       | Nil    |
| E.V.M.               | 1      |
| Stalk/Core           | 3%w/w  |
| Major Blemish/Damage | 3      |
| Minor Blemish        | 10     |
| Poorly Trimmed       | 5% w/w |
| Loose & Ricey        | 5% w/w |
| Colour Variants      | 5% w/w |
| Out of size          | 20%w/w |
| Dust (<10mm)         | 5%w/w  |

## **DEFINITIONS OF DEFECTS**

### **Clumps**

These are two or more florets fused together by freezing or where a number of broken pieces or dust is fused together to give a clump larger than 25g.

### **Foreign Material**

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

### **Extraneous Vegetable Matter (EVM) and Whole Stalk**

This includes any harmless vegetable material other than the cauliflower florets, such as pieces of cauliflower leaves and attached or unattached core.

### **Poorly Trimmed**

Florets with a ragged stalk end or with a heel attached to the stalk or with leaves extending beyond the curd.

### **Stalk/Core**

Any unattached piece of stalk/core between 15mm and 25mm in the largest dimension.

### **Loose & Ricey**

Florets which either have a loose, open flower-like structure or a ricey appearance.

### **Major Blemish**

A floret that is defective to a major degree is one that bears pronounced blemishes caused by disease or insects or other factors to the extent that the affected area or areas in aggregate total is greater than 6mm diameter or has 50% or more of the curd missing.

### **Minor Blemish**

A floret which is defective to a minor degree is one which bears blemishes caused by disease or insects or other factors to the extent that the affected area or areas in aggregate total is greater than 2mm and less than 6mm diameter. Blemishes of less than 2mm may be ignored.

|                     |                           |                |                           |                             |
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### **Colour Variants**

Colour variants are florets that have significant discolourations of green, pink, distinct yellow or grey to the floret surface or which have significant discolourations of green, purple or grey to the stalk. They are also florets that are significantly different in colour from the bulk of the sample.

### **Undersize**

Any unit which is less than 40mm. Undersize units are measured across the widest part of the biggest dimension of the floret.

### **Oversize**

Any unit which is greater than 60mm. Oversize units are measured across the widest part of the smallest dimension of the floret.

*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 thawed sample.)

#### **COLOUR**

Bright, white or creamy white florets. There may be very slight non-uniformity in colour amongst florets and/or amongst stalks.

#### **FLAVOUR**

Full characteristic sweet flavour cauliflower floret.

#### **TEXTURE**

Tender, firm florets and stalks, yielding to the bite.



Average sample

|                     |                           |                |                           |                             |
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#### **MICROBIOLOGICAL**

| Organism               | Target          | Maximum         |
|------------------------|-----------------|-----------------|
| <i>TVC @ 30°C</i>      | $5 \times 10^5$ | $1 \times 10^6$ |
| <i>Total Coliforms</i> | $5 \times 10^2$ | $3 \times 10^3$ |
| <i>E. coli</i>         | $1 \times 10^1$ | $1 \times 10^2$ |
| <i>Listeria mono</i>   | Absent in 25g   | $1 \times 10^2$ |
| <i>Salmonella</i>      | Absent in 25g   | Absent in 25g   |

**ANALYTICAL** Product shall be blanched to give a negative peroxidase reaction (guaiacol test) between 50 and 60 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. Minimum BB date on delivery: 6 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 cauliflower typically contains: -

| Parameter               | Value / 100g | Methodology                                 |
|-------------------------|--------------|---------------------------------------------|
| Energy - kcal           | 27           | McCance & Widdowson 5 <sup>th</sup> Edition |
| Energy - kJ             | 115          | McCance & Widdowson 5 <sup>th</sup> Edition |
| Moisture                | 90.8g        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Carbohydrate            | 2.8g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| - as sugars             | 2.0g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| - as polyols            | 0.0g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| - as starch             | 0.7g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Fat                     | 0.5g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| - as saturates          | 0.1g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| - as mono unsaturates   | 0.1g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| - as poly unsaturates   | 0.3g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Protein                 | 2.9g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Fibre                   | 1.4g         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Sodium                  | 16mg         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Vitamin A               | 8µg          | McCance & Widdowson 5 <sup>th</sup> Edition |
| Vitamin B <sub>6</sub>  | 0.19mg       | McCance & Widdowson 5 <sup>th</sup> Edition |
| Vitamin B <sub>12</sub> | 0.0mg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Vitamin C               | 49mg         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Vitamin D               | 0.0µg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Vitamin E               | 0.22mg       | McCance & Widdowson 5 <sup>th</sup> Edition |
| Thiamin                 | 0.05mg       | McCance & Widdowson 5 <sup>th</sup> Edition |
| Riboflavin              | 0.05mg       | McCance & Widdowson 5 <sup>th</sup> Edition |
| Niacin                  | 0.5mg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Folic Acid              | 26µg         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Biotin                  | 1.5µg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Pantothenic Acid        | 0.6mg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Calcium                 | 26mg         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Phosphorus              | 47mg         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Iron                    | 0.5mg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Magnesium               | 11mg         | McCance & Widdowson 5 <sup>th</sup> Edition |
| Zinc                    | 0.3mg        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Iodine                  | Trace        | McCance & Widdowson 5 <sup>th</sup> Edition |
| Potassium               | 670mg        | McCance & Widdowson 5 <sup>th</sup> 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: 31<sup>st</sup> January 2020

### **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: 31<sup>st</sup> January 2020

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## **FOOD INTOLERANCE**

| <b>Food Intolerance Data</b>                                                                                                                                               |                     |                                   |                     |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|---------------------|----------------|
| Does the material supplied contain any of the following? (NO) Absent, (YES) Present                                                                                        |                     |                                   |                     |                |
| <b>Allergen</b>                                                                                                                                                            | <b>NO / YES</b>     | <b>Reason for presence if YES</b> |                     |                |
| 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/Celeryiac                                                                                                                                                           | NO                  |                                   |                     |                |
| Lupins                                                                                                                                                                     | NO                  |                                   |                     |                |
| *Including any product derived from slaughtered animals, e.g. gelatine, rennet                                                                                             |                     |                                   |                     |                |
| **Including wheat, corn, barley, rye, oats, etc.                                                                                                                           |                     |                                   |                     |                |
| <b><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></b> |                     |                                   |                     |                |
| <b>Is this product Suitable for:</b>                                                                                                                                       |                     |                                   |                     |                |
| <b>Vegans</b>                                                                                                                                                              | Yes (Not certified) | <b>Vegetarians</b>                | Yes                 | <b>Organic</b> |
| <b>Halal</b>                                                                                                                                                               | Yes (Not certified) | <b>Kosher</b>                     | Yes (Not certified) |                |

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### **FOOD ADDITIVES**

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

### **COSHH Data**

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 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.

Signed on behalf of Foodnet Ltd:

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31<sup>st</sup> January 2020

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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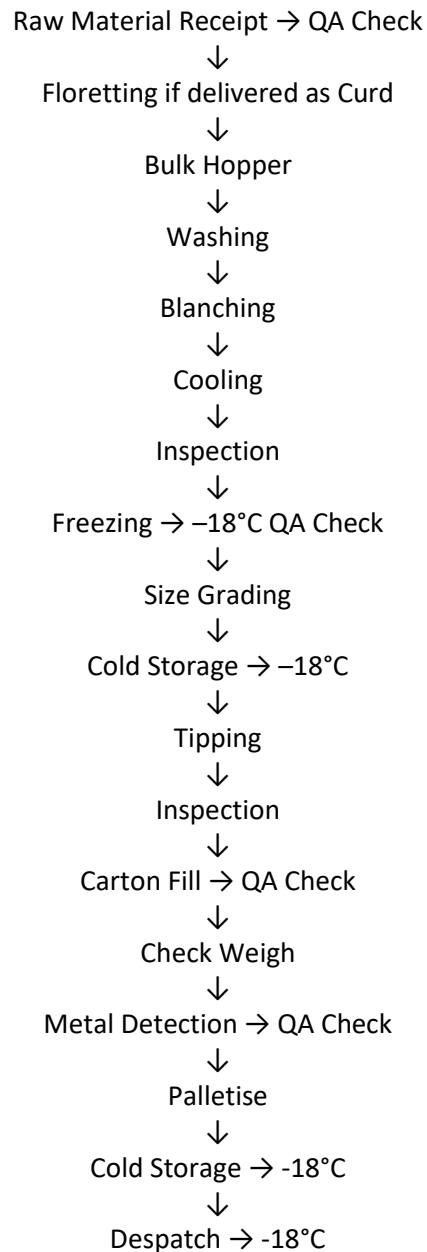
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## **PROCESS INFORMATION**

### **PROCESS FLOW CHART\***

\*Note: this is a generic flow chart which does not refer to any specific production site.

#### **CAULIFLOWER FLORETS**



|                     |                           |                |                           |                             |
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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.<br>Reviewed Food Intolerance table, Flow Chart and Amendment table. | G. Oberto   |
| 3        | 1         | 31/01/2020 | 3 Year update – general revision                                                                                                                                          | G. Oberto   |
|          |           |            |                                                                                                                                                                           |             |
|          |           |            |                                                                                                                                                                           |             |
|          |           |            |                                                                                                                                                                           |             |
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