



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> Diced Turnip 20MM (White Swede) IQF	<b>Last Update:</b> 31/01/2023	<b>Product Code:</b> TUR002

**PACK SIZE** 1 x 10kg; 1 x 15kg; 1 x 25kg

**ORIGIN:** UK

**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 (minimum of +75°C for 30 seconds).

**INGREDIENTS** Turnip ( White Swede) 100% Declare as: Turnip (White Swede)  
(*Brassica napus var. napobrassica*)

**PROCESSING** Turnip is delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, peeled, cut, blanched, frozen and filled into bulk palletainers. The turnip is 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 swedes are 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.

#### **DEFECT TOLERANCES**

<b><u>Per 1000g</u></b>	<b><u>Target</u></b>	<b><u>Maximum</u></b>
Clumps (no of dice)	5	10
Foreign Material	Nil	Nil
E.V.M.	Nil	1
<b><u>Per 250g</u></b>		
Gross Blemish	Nil	Nil
Major Blemish	1	5
Minor Blemish	5	20
Greening	5	30
Oversize	3% w/w	5% w/w
Undersize	5% w/w	10% w/w

Doc Ref: PRO-SPE	Issue date: 31.01.2023	Issue No: 4	Prepared by: Filipe Soares	Authorised by: Gianluca Oberto
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## **DEFINITIONS OF DEFECTS**

### **Clumps**

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

### **Foreign Material**

This includes any material not derived from the turnip 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.

### **Gross Blemish**

A gross blemish is a black or brown, or decomposed area which covers an area greater than 25% of the surface area of the dice.

### **Major Blemish**

A major blemish is a discoloured area (other than green) either as a single blemish or as an aggregate of blemishes covering an area greater than 6mm diameter.

### **Greening**

A die with greening is one which is green for greater than half its surface area.

### **Minor Blemish**

A minor blemish is a discoloured area (other than green) either as a single blemish or an aggregate of blemishes covering an area of less than 6mm diameter. Single blemishes below 2mm shall be ignored.

### **Oversize**

Dice which are larger than one and a half the declared size in any one or more dimensions.

### **Undersize**

Any dice which is less than 1/3mm of the declared size in one or more dimensions.

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**ORGANOLEPSIS** (Carried out on a thawed sample.)

**COLOUR** Bright, white, uniform within the sample.

**FLAVOUR** Full characteristic sweet flavour, typical of turnip.

**TEXTURE** Uniformly firm and tender.



Average sample

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### **MICROBIOLOGICAL**

<b>Organism</b>	<b>Target</b>	<b>Maximum</b>
<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>	$<4 \times 10^1$	$1 \times 10^2$
<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 turnip typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	24	McCance & Widdowson 6 <sup>th</sup> Edition
Energy - kJ	101	McCance & Widdowson 6 <sup>th</sup> Edition
Moisture	91.2g	McCance & Widdowson 6 <sup>th</sup> Edition
Carbohydrate	5.0g	McCance & Widdowson 6 <sup>th</sup> Edition
- as sugars	4.9g	McCance & Widdowson 6 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 6 <sup>th</sup> Edition
- as starch	0.1g	McCance & Widdowson 6 <sup>th</sup> Edition
Fat	0.3g	McCance & Widdowson 6 <sup>th</sup> Edition
- as saturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as poly unsaturates	0.2g	McCance & Widdowson 6 <sup>th</sup> Edition
Protein	0.7g	McCance & Widdowson 6 <sup>th</sup> Edition
Fibre	1.9g	McCance & Widdowson 6 <sup>th</sup> Edition
Sodium	15mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin A	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B <sub>6</sub>	0.21mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B <sub>12</sub>	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin C	31mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin D	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin E	Trace/mg	McCance & Widdowson 6 <sup>th</sup> Edition
Thiamin	0.15mg	McCance & Widdowson 6 <sup>th</sup> Edition
Riboflavin	Trace/mg	McCance & Widdowson 6 <sup>th</sup> Edition
Niacin	1.2mg	McCance & Widdowson 6 <sup>th</sup> Edition
Folic Acid	31µg	McCance & Widdowson 6 <sup>th</sup> Edition
Biotin	0.1µg	McCance & Widdowson 6 <sup>th</sup> Edition
Pantothenic Acid	0.11mg	McCance & Widdowson 6 <sup>th</sup> Edition
Calcium	53mg	McCance & Widdowson 6 <sup>th</sup> Edition
Phosphorus	40mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iron	0.1mg	McCance & Widdowson 6 <sup>th</sup> Edition
Magnesium	9mg	McCance & Widdowson 6 <sup>th</sup> Edition
Zinc	0.3mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iodine	µg	McCance & Widdowson 6 <sup>th</sup> Edition
Potassium	170mg	McCance & Widdowson 6 <sup>th</sup> Edition

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### **GMO DECLARATION**

I confirm that this product is not genetically modified or produced from genetically modified organisms. No genetically modified organisms have been used as processing aids or additives. This product does not require specific GM labelling as per Regulation (EC) 1829/2003.

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31<sup>st</sup> January 2023

### **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 2023

### **COSHH Data**

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

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

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

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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/Celery	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>	No
<b>Halal</b>	Yes (Not certified)	<b>Kosher</b>	Yes (Not certified)		

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### **FOOD ADDITIVES**


<b>E. Number</b>	<b>Name</b>	<b>In Which Ingredient</b>	<b>Function in Ingredient</b>	<b>Function in Final Product</b>	<b>% In Final Product</b>
None					

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 2023

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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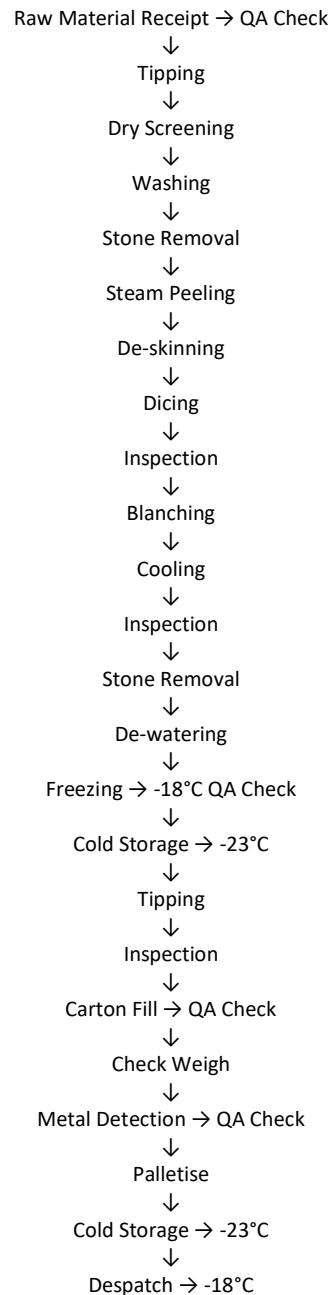
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## **PROCESS INFORMATION**

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

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

#### **DICED TURNIP**



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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
3	1	31/01/2020	3 Year update – general revision	G. Oberto
4	1	31/01/2023	3 Year update – general revision	F. Soares

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