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

Technical Specification		
Product: 6-10mm Cut Baby Carrot 3-5cm Length IQF	**Last Update:** 31/01/2026	**Product Code:** CAR003

PACK SIZE 1 x 10kg; 1 x 15kg; 1 x 20kg;

ORIGIN: Belgium, France, Netherlands, Germany

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	Baby Carrots	100%	Declare as: Carrots *(Daucus carota)*

PROCESSING Baby carrots are delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, peeled, blanched, frozen and filled into bulk palletainers. The baby carrots 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 carrots 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 -18ºC to await despatch to the UK at -18ºC.

DEFECT TOLERANCES

Per 1000g	**Target**	**Maximum**
Clumps	2% w/w	5% w/w
Foreign Material	Nil	Nil
EVM	Nil	2
Black/green crown	5% w/w	10%w/w
Faulty Peeling >4mm	2%w/w	5%w/w
Blemished Carrots	3	6
Colour Variants	2%w/w	5%w/w
Cracked Carrots	5%w/w	10%w/w
Damaged/Deformed	5	8
Out of size (Dia >10mm,<6mm, L >50mm, <30mm)	15%w/w	30%w/w

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DEFINITIONS OF DEFECTS

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

Foreign Material
This includes any material not derived from the carrot 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.

Black/green crown
This refers to black/ green crowns >2mm and any green discolouration which extends beyond the crown of the carrot

Blemished Carrot
This includes areas of the roots which have been seriously affected by insects, disease, rot, black tops or other agencies 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 carrot root.

Faulty Peeling
This refers to noticeable pieces of attached skin greater than, or equal to, an equivalent circle of 4mm in diameter.

Colour Variants
This includes roots that have a pronounced yellow colouration.

Cracked Carrots
A cracked carrot is one which, in the frozen state, shows a crack greater than half the length of the carrot or has a fissure aperture wider than 2mm.

Damaged/Deformed
This is a root which has been seriously damaged/deformed by mechanical and/or natural means. This does not include cleanly broken pieces.

Oversize
These are carrots that are greater than 10mm in diameter and/or 50mm in length.

Undersize
These are carrots that are less than 6mm in diameter and/or 30mm in length.

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ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR Bright, deep orange, uniform within the sample.

FLAVOUR Full characteristic sweet flavour lacking bitterness.

TEXTURE Carrots shall be uniformly firm, but yielding to the bite, free from tough cores and any fibrous or woody material.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
T V C @ 30°C	5×10^5	1.5×10^6
Total Coliforms	5×10^2	5×10^3
E. coli	4×10^1	1×10^2
Listeria mono	Absent in 25g	1×10^2
Salmonella	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.

SACKS Blue food grade polythene sack of a minimum thickness of 110µm.

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NUTRITIONAL INFORMATION

This data conforms to the requirements of EC Council Directive 90/496/EEC

100g of uncooked baby carrots typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	30	McCance & Widdowson 6th Edition
Energy - kJ	125	McCance & Widdowson 6th Edition
Moisture	88.8g	McCance & Widdowson 6th Edition
Carbohydrate	6.0g	McCance & Widdowson 6th Edition
- as sugars	5.6g	McCance & Widdowson 6th Edition
- as polyols	0.0g	McCance & Widdowson 6th Edition
- as starch	0.2g	McCance & Widdowson 6th Edition
Fat	0.5g	McCance & Widdowson 6th Edition
- as saturates	0.1g	McCance & Widdowson 6th Edition
- as mono unsaturates	Trace	McCance & Widdowson 6th Edition
- as poly unsaturates	0.3g	McCance & Widdowson 6th Edition
Protein	0.7g	McCance & Widdowson 6th Edition
Fibre	2.4g	McCance & Widdowson 6th Edition
Sodium	40mg	McCance & Widdowson 6th Edition
Vitamin A	1311µg	McCance & Widdowson 6th Edition
Vitamin B_6	0.7mg	McCance & Widdowson 6th Edition
Vitamin B_{12}	0µg	McCance & Widdowson 6th Edition
Vitamin C	4mg	McCance & Widdowson 6th Edition
Vitamin D	0µg	McCance & Widdowson 6th Edition
Vitamin E	0.56mg	McCance & Widdowson 6th Edition
Thiamin	0.04mg	McCance & Widdowson 6th Edition
Riboflavin	0.02mg	McCance & Widdowson 6th Edition
Niacin	0.2mg	McCance & Widdowson 6th Edition
Folic Acid	28µg	McCance & Widdowson 6th Edition
Biotin	0.6µg	McCance & Widdowson 6th Edition
Pantothentic Acid	0.25mg	McCance & Widdowson 6th Edition
Calcium	34mg	McCance & Widdowson 6th Edition
Phosphorus	25mg	McCance & Widdowson 6th Edition
Iron	0.3mg	McCance & Widdowson 6th Edition
Magnesium	9mg	McCance & Widdowson 6th Edition
Zinc	0.2mg	McCance & Widdowson 6th Edition
Iodine	2µg	McCance & Widdowson 6th Edition
Potassium	240mg	McCance & Widdowson 6th 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: 31st January 2026

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: 31st January 2026

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

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/Celeriac	NO	
Lupins	NO	

*Including any product derived from slaughtered animals, e.g. gelatine, rennet
**Including wheat, corn, barley, rye, oats, etc.

Please be aware the manufacturing sites we supply this item from may handle allergens in production. Procedures are in place to prevent cross-contamination.

Is this product Suitable for:

Vegans	Yes (Not certified)	**Vegetarians**	Yes	**Organic**	No
Halal	Yes (Not certified)	**Kosher**	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					

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: 31st January 2026

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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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.

BABY CARROTS

Raw Material Receipt → QA Check
↓
Washing Drum
↓
Stone Removal
↓
Steam Peeling
↓
Brushing
↓
Inspection
↓
Blanching
↓
Cooling
↓
Stone Removal
↓
De-watering
↓
Freezing → -18°C QA Check
↓
Cold Storage → -18°C
↓
Tipping
↓
Inspection
↓
Sack or Carton Fill → QA Check
↓
Check Weigh
↓
Metal Detection → QA Check
↓
Cold Storage → -18°C
↓
Despatch → -18°C

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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
5	1	31/01/2026	3 Year update – general revision	F. Soares