



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

Technical Specification

Product: Asparagus Cuts & Tips Chinese 20-40MM IQF	Last Update: 31/01/2023	Product Code: ASP001
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PACK SIZE 1 x 10Kg

ORIGIN: China

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 Asparagus 100% Declare as: Asparagus
(*Asparagus officinalis*)

PROCESSING Asparagus Spears are harvested and delivered to the factory. Each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, cut into 1" lengths, blanched and frozen and filled into bulk palletainers. The frozen asparagus cuts and tips are sampled and assessed against the attached 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 asparagus cuts and tips are inspected before weighing and filling into cartons. Cartons are printed, sealed, coded, metal detected, palletised and stretch-wrapped before being returned to store at –18°C to await despatch.

DEFECT TOLERANCES

1000g Sample

Foreign Matter	Nil
E.V.M.	1

500g Sample

Fibrous Stalk	1
Major Blemish >6mm	2
Minor Blemish <6mm	6
Damaged/poorly cut	8%w/w
Long Pieces >40mm	10% (w/w)
Short Pieces <20mm	5% (w/w)
Stalk Thickness 7-16mm	90% (w/w)
Cuts to Tips Ratio	5:1 ±5% (w/w)

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DEFINITIONS OF DEFECTS

Foreign Material

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

Extraneous Vegetable Matter (EVM)

This includes any vegetable matter other than asparagus cuts & tips which is derived from the asparagus plant or other harmless vegetable material such as pieces of leaf etc.

Woody Stalk

These are pieces of asparagus on which the outer skin is very tough and/or woody and is unpalatable and/or unacceptable to eat.

Major Blemish

This includes asparagus cut & tips which are blemished through damage by insects or mechanical means or which have blackened, decomposed or discoloured areas where the area affected is greater than 6mm in diameter or length either as a single blemish or an aggregate of blemishes which are considered objectionable.

Minor Blemish

This includes units which are blemished through damage by insects or mechanical means or which have blackened, decomposed or discoloured areas where the area affected is at least 2mm in diameter or length either as a single blemish or as an aggregate of blemishes and which is not considered to be a major defect. Single blemishes of less than 2mm shall be ignored.

Long Pieces

These are asparagus cuts & tips which are greater than 40mm in length when measured along the central axis between the cut surfaces.

Short Pieces

These are asparagus cuts & tips which are less than 20mm in length when measured along the central axis between the cut surfaces.

Cuts to Tips Ratio

This is the ratio of cut stalk to head and should be in the proportion of 5:1 \pm 5% (w/w).

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ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR Pale to dark green, typical of asparagus.

FLAVOUR Full characteristic asparagus flavour.

TEXTURE Fairly uniform, flesh may be slightly soft, skins may be slightly tough but not woody.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
<i>TVC @ 30°C</i>	1×10^4	1×10^6
<i>Total Coliforms</i>	1×10^2	1×10^3
<i>E. coli</i>	Nil	1×10^2
<i>Listeria mono</i>	Absent in 25g	1×10^2
<i>Salmonella</i>	Absent in 25g	Absent in 25g

ANALYTICAL Product shall be blanched to give a negative peroxidase reaction (guaiaicol 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 asparagus typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	25	McCance & Widdowson 6 th Edition
Energy - kJ	103	McCance & Widdowson 6 th Edition
Moisture	91.4g	McCance & Widdowson 6 th Edition
Carbohydrate	2.0g	McCance & Widdowson 6 th Edition
- as sugars	1.9g	McCance & Widdowson 6 th Edition
- as polyols	0.0g	McCance & Widdowson 6 th Edition
- as starch	0.1g	McCance & Widdowson 6 th Edition
Fat	0.6g	McCance & Widdowson 6 th Edition
- as saturates	0.1g	McCance & Widdowson 6 th Edition
- as mono unsaturates	0.1g	McCance & Widdowson 6 th Edition
- as poly unsaturates	0.2g	McCance & Widdowson 6 th Edition
Protein	2.9g	McCance & Widdowson 6 th Edition
Fibre	1.7g	McCance & Widdowson 6 th Edition
Sodium	1mg	McCance & Widdowson 6 th Edition
Vitamin A	52.5µg	McCance & Widdowson 6 th Edition
Vitamin B ₆	0.09mg	McCance & Widdowson 6 th Edition
Vitamin B ₁₂	0.0µg	McCance & Widdowson 6 th Edition
Vitamin C	12.0mg	McCance & Widdowson 6 th Edition
Vitamin D	0.0mg	McCance & Widdowson 6 th Edition
Vitamin E	1.16mg	McCance & Widdowson 6 th Edition
Thiamin	0.16mg	McCance & Widdowson 6 th Edition
Riboflavin	0.06mg	McCance & Widdowson 6 th Edition
Niacin	1.0mg	McCance & Widdowson 6 th Edition
Folic Acid	175µg	McCance & Widdowson 6 th Edition
Biotin	0.4µg	McCance & Widdowson 6 th Edition
Pantothenic Acid	0.17mg	McCance & Widdowson 6 th Edition
Calcium	27mg	McCance & Widdowson 6 th Edition
Phosphorus	72mg	McCance & Widdowson 6 th Edition
Iron	0.7mg	McCance & Widdowson 6 th Edition
Magnesium	13mg	McCance & Widdowson 6 th Edition
Zinc	0.7mg	McCance & Widdowson 6 th Edition
Iodine	Trace	McCance & Widdowson 6 th Edition
Potassium	260mg	McCance & Widdowson 6 th 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 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: 31st 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

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/Celery		NO			
Lupins		NO			
*Including any product derived from slaughtered animals, e.g. gelatine, rennet					
**Including wheat, corn, barley, rye, oats, etc.					
<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>					
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 2023

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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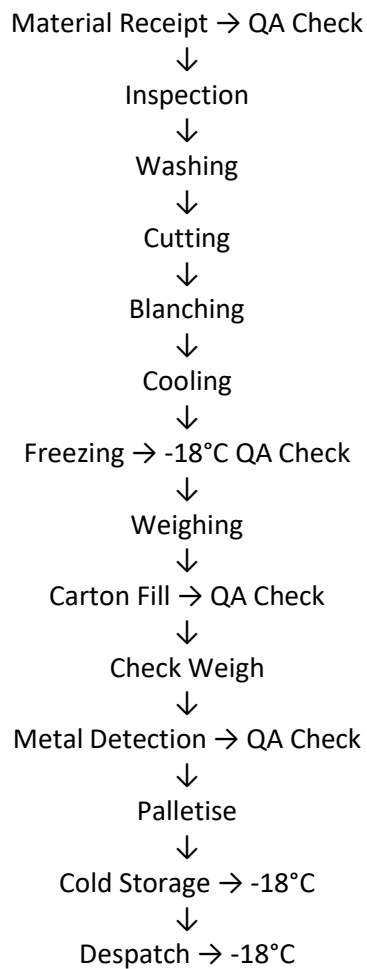
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PROCESS INFORMATION

PROCESS FLOW CHART*

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

ASPARAGUS CUTS & TIPS



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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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