



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> Bamboo Shoots Sliced	<b>Last Update:</b> 31/01/2020	<b>Product Code:</b> BAM002

**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.

**INGREDIENTS** Bamboo Shoots 100% Declare as: Bamboo Shoots  
(*Phyllostachys pubescens*)

**PROCESSING** Bamboo shoots are delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cooked, peeled, trimmed, cut, washed, blanched, cooled, frozen and filled into bulk palletainers. The julienne bamboo shoots 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 bamboo shoots are inspected before weighing and filling into blue poly lined cartons. The cartons are Best Before and Production date coded, check weighed, 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 Final Product Temperature
Packing: -	Metal detection Check weighing Final product physical defect levels Organolepsis Case quantity Case sealing Case coding and print quality

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## **DEFECT TOLERANCES**

### **Per 500g**

Clumps	5%w/w
Foreign Matter	Nil
EVM	1
Major discolouration	1
Minor discolouration	10
Blemish	5
Broken Slices	8%w/w
Out of Size	20%w/w

## **DEFINITIONS OF DEFECTS**

### **Clumps**

This is where 3 or more slices are welded together so that the slices cannot be readily separated without causing damage to the slices.

### **Foreign Material**

This includes any material not derived from the bamboo plant or defined as EVM. Examples of Foreign Matter include insects, pieces of insects, wood, glass, stones, metal, toxic berries, seed or flower heads, snails, slugs or any other material which will render the product unacceptable.

### **Extraneous Vegetable Matter (EVM)**

Vegetable material derived from the aubergine plant other than the aubergine flesh e.g. pieces of core, leaf, calyx etc. Vegetable material not from the aubergine plant will be counted as Foreign material.

### **Major Discolouration**

This includes slices with black spots, dark brown colour over 6mm in length.

### **Minor Discolouration**

This includes slices with slight black spots, dark brown colour of between 3-6mm in length, tint of pink or discolouration of tissue (due to prolonged storage or cooking).

### **Blemish**

This includes units which are blemished through damage by insects or mechanical means.

### **Broken Slices**

This includes slices that are less than half their nominal declared size in any dimension.

### **Out of Size**

Any unit with a Length <30mm or >50mm, Width <10mm or >15mm or Thickness <2.5mm or >3.5mm

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*The below minimum numbers of samples should be inspected and average result to be out-of-spec.*

	Minimum samples to be taken (1Kg of product per each item)		
Quantity Delivered (Kg)	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**

Light yellow or white.

**FLAVOUR**

Typical neutral taste of bamboo shoots with no off flavours.

**TEXTURE**

Shall be crisp without woodiness.



Average sample

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#### **MICROBIOLOGICAL**

Organism	Target	Maximum
<i>TVC @ 30°C</i>	$1 \times 10^5$	$1 \times 10^6$
<i>Total Coliforms</i>	$1 \times 10^2$	$1 \times 10^3$
<i>E. coli</i>	Nil	$1 \times 10^2$
<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 trace positive peoxidase reaction (guaiaicol 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. 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 bamboo typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	11	McCance & Widdowson 5 <sup>th</sup> Edition
Energy - kJ	45	McCance & Widdowson 5 <sup>th</sup> Edition
Moisture	95.5g	McCance & Widdowson 5 <sup>th</sup> Edition
Carbohydrate	0.7g	McCance & Widdowson 5 <sup>th</sup> Edition
- as sugars	0.7g	McCance & Widdowson 5 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 5 <sup>th</sup> Edition
- as starch	Trace	McCance & Widdowson 5 <sup>th</sup> Edition
Fat	0.2g	McCance & Widdowson 5 <sup>th</sup> Edition
- as saturates	Trace	McCance & Widdowson 5 <sup>th</sup> Edition
- as mono unsaturates	Trace	McCance & Widdowson 5 <sup>th</sup> Edition
- as poly unsaturates	0.1g	McCance & Widdowson 5 <sup>th</sup> Edition
Protein	1.5g	McCance & Widdowson 5 <sup>th</sup> Edition
Fibre	1.7g	McCance & Widdowson 5 <sup>th</sup> Edition
Sodium	4mg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin A	2µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin B <sub>6</sub>	0.00mg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin B <sub>12</sub>	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin C	Trace	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin D	0.0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin E	0.00mg	McCance & Widdowson 5 <sup>th</sup> Edition
Thiamin	0.09mg	McCance & Widdowson 5 <sup>th</sup> Edition
Riboflavin	0.06mg	McCance & Widdowson 5 <sup>th</sup> Edition
Niacin	0.5mg	McCance & Widdowson 5 <sup>th</sup> Edition
Folic Acid	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Biotin	0.0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Pantothenic Acid	0.00mg	McCance & Widdowson 5 <sup>th</sup> Edition
Calcium	13mg	McCance & Widdowson 5 <sup>th</sup> Edition
Phosphorus	39mg	McCance & Widdowson 5 <sup>th</sup> Edition
Iron	0.4mg	McCance & Widdowson 5 <sup>th</sup> Edition
Magnesium	3mg	McCance & Widdowson 5 <sup>th</sup> Edition
Zinc	1.1mg	McCance & Widdowson 5 <sup>th</sup> Edition
Iodine	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Potassium	530mg	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/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/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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## **PROCESS INFORMATION**

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

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

#### **SLICED BAMBOO SHOOTS**

Harvest → Raw Material QA Check



Cooking



Peeling



Trimming



Slicing



Washing



Blanched



Cooling



Freezing → -18°C QA Check



Inspection



Carton Fill → QA Check



Check Weigh



Metal Detection → QA Check



Palletise



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

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