



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: Banana Sliced	Last Update: 31/01/2020	Product Code: APR001

PACK SIZE 1 x 10kg;

ORIGIN: Ecuador / Vietnam

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 Banana 100% Declare as: Banana
(*Musa spp.*)

PROCESSING Bananas are delivered fresh to the factory, each load is quality assurance sampled for foreign material and physical defects. The load is then put in a chill store (3°C) before peeling, slicing, washing through an ascorbic acid dip and freezing to -18°C or below.

PACKING During packing the sliced bananas 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 -23°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

<u>Per 10kg</u>	Maximum
Clumps	10% w/w
Foreign Material	Nil
Stalks >3mm	2
Leaf Fragments >3 & <10mm	1
<u>Per 1000g</u>	
Skin Fragments >3mm & <10mm	1
Blemished	2
Over-ripe	2.0% w/w
Unripe	0.1% w/w
Damaged	5% w/w
Broken Slices	2% w/w
Diameter	20mm to 40mm
Thickness	10mm to 15mm
Brix	19-25°

DEFINITIONS OF DEFECTS

Clumps

This is where 4 or more slices are welded together which cannot be readily separated without causing damage to the slices.

Foreign Material

This includes any material other than that derived from the banana or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, paint, grease, oil, foreign vegetable material or any other material which would render the product unacceptable.

Stalks

This includes pieces banana stalk between 3 and 10mm in length.

Leaf Fragments

This includes pieces of banana leaf between 3 and 10mm in size.

Blemished

This includes slices showing black or brown discoloured spots.

Over-ripe

This includes slices that have brown discolouration due to over-ripeness.

Unripe

These are slices that are very pale in colour and have a hard texture.

Damaged

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These are slices that squashed or deformed.

Broken Slices

These are banana slices which are less than half the original size.

Size

See defects tolerances table for definitions.

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

Creamy coloured slices typical of the variety used.

FLAVOUR

Full characteristic flavour of fresh banana.

TEXTURE

Uniformly firm and tender, yielding to the bite.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
<i>TVC @ 30°C</i>	1×10^3	5×10^5
<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

Brix	19 – 25°
Ascorbic/Citric acid	1.5% (the slices are dipped in this solution)
pH	4.5 – 5.1

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 banana typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	95	McCance & Widdowson 6 th Edition
Energy - kJ	403	McCance & Widdowson 6 th Edition
Moisture	75.1g	McCance & Widdowson 6 th Edition
Carbohydrate	23.2g	McCance & Widdowson 6 th Edition
- as sugars	20.9g	McCance & Widdowson 6 th Edition
- as polyols	0.0g	McCance & Widdowson 6 th Edition
- as starch	2.3g	McCance & Widdowson 6 th Edition
Fat	0.3g	McCance & Widdowson 6 th Edition
- as saturates	0.1g	McCance & Widdowson 6 th Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 th Edition
- as poly unsaturates	0.1g	McCance & Widdowson 6 th Edition
Protein	1.2g	McCance & Widdowson 6 th Edition
Fibre	1.1g	McCance & Widdowson 6 th Edition
Sodium	1mg	McCance & Widdowson 6 th Edition
Vitamin A	3.5µg	McCance & Widdowson 6 th Edition
Vitamin B6	0.29mg	McCance & Widdowson 6 th Edition
Vitamin B12	0.0µg	McCance & Widdowson 6 th Edition
Vitamin C	11mg	McCance & Widdowson 6 th Edition
Vitamin D	0.0µg	McCance & Widdowson 6 th Edition
Vitamin E	0.27mg	McCance & Widdowson 6 th Edition
Thiamin	0.4mg	McCance & Widdowson 6 th Edition
Riboflavin	0.6mg	McCance & Widdowson 6 th Edition
Niacin	0.7mg	McCance & Widdowson 6 th Edition
Folic Acid	14µg	McCance & Widdowson 6 th Edition
Biotin	2.6µg	McCance & Widdowson 6 th Edition
Pantothenic Acid	0.36mg	McCance & Widdowson 6 th Edition
Calcium	6mg	McCance & Widdowson 6 th Edition
Phosphorus	28mg	McCance & Widdowson 6 th Edition
Iron	0.3mg	McCance & Widdowson 6 th Edition
Magnesium	34mg	McCance & Widdowson 6 th Edition
Zinc	0.2mg	McCance & Widdowson 6 th Edition
Iodine	8µg	McCance & Widdowson 6 th Edition
Potassium	400mg	McCance & Widdowson 6 th 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: 31st 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: 31st January 2020

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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	YES		Banana 100%		
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.					
<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
E300	Ascorbic Acid	Banana	None	Anti-Oxidant	Trace
E330	Citric Acid	Banana	None	Anti-Oxidant	Trace

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.

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 2020

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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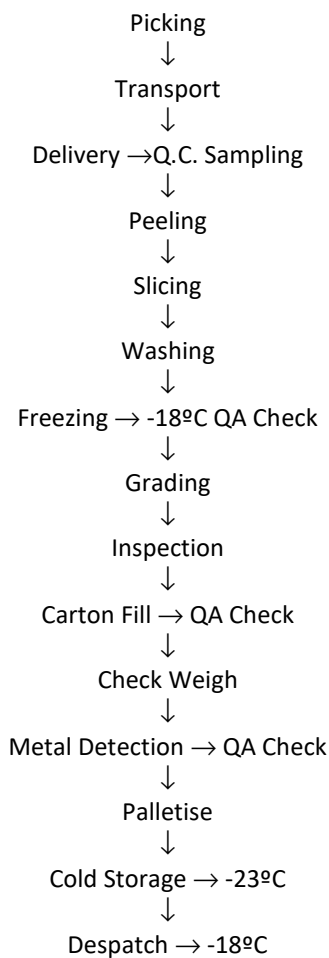
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PROCESS INFORMATION

PROCESS FLOW CHART*

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

SLICED BANANAS



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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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