

Head Office: The Old Grammar School, 3-7 Market Square, Amersham, Bucks. HP7 ODF Tel: (44) 1494 434600 Fax: (44) 1494 434435 Email: foodnettechnical@foodnet.ltd.uk

Product Specification

Whole 22-26mm Manufacturing Strawberry

Date: 1st May 2017 Page 1 of 11

PACK SIZE 1 x 10kg

ORIGIN: Turkey

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 Strawberries 100% Declare as: Strawberries

(Fragaria virginiara)

Variety: Tioga

PROCESSING Strawberries are delivered fresh to the factory, each load is

quality assurance sampled for foreign material and physical defects. The strawberries are washed, dried and de-stalked,

inspected and frozen to -18°C or below.

PACKING During packing the strawberries are inspected before being

weighed and filled into blue poly lined cartons, or, into 2.5kg heat sealed poly bags then packed four bags to a carton. 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.

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

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

DEFECT TOLERANCES

Assessed on 1000g sample (frozen)

<u>Defect</u>	Tolerance
Welding (number)	8
Foreign Matter (FM)	Nil
Foreign Extraneous Vegetable Matter (FEVM)	Nil
Extraneous Vegetable Matter (EVM)	2
Under-ripe Berries	15
Major Blemishes	6
Minor Blemishes	12
Damaged	5
Malformed	4
Attached Calyx/Stalk	10
Undersize (Dia <22mm)	5%
Oversize (Dia >26mm)	10%

DEFINITIONS OF DEFECTS

Welding

This is where two or more strawberries are welded together, and which cannot be readily separated without causing damage to the product. The number of the berries affected shall be recorded. These strawberries shall then be separated and assessed for the remainder of the defects.

Foreign Matter:

This includes any material not derived from the strawberry plant nor defined as FEVM. Examples of foreign matter include insects, pieces of insects, wood, glass, mineral stones, metal, slugs etc.

Foreign Extraneous Vegetable Matter

This includes any vegetable material not derived from the strawberry plant, and which is non-toxic.

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

EVM:

This includes any extraneous vegetable material derived from the strawberry plant, other than the strawberry berry

Under-ripe Berries

This includes berries which are white or green for more than 25% of their surface area, as a result of immaturity.

Major Blemishes

This includes strawberries which are blemished to the extent that the area affected is equal to, or greater than, an equivalent circle of 6mm in diameter, either as a single blemish or an aggregate of blemishes on the same berry.

Minor Blemishes

This includes strawberries which are blemished to the extent that the area affected is equal to an equivalent circle of between 2mm and 6mm in diameter, either as a single blemish or an aggregate of blemishes. Blemishes less than 2mm in diameter shall be ignored. Over-ripe berries shall be included in this category.

Damaged

These are berries which have been broken, or badly squashed, causing a reduction in the diameter of the berry.

Malformed

These are berries which are seriously malformed, for example those with monkey faces (noses) caused by faulty fertilisation (see Figures 1 and 2).

Attached Calyx/Stalk

These are berries where the removal of the calyx is incomplete, and the calyx, part calyx or stalk remains attached to the berry (see Figures 3, 4 and 5).

Size Grading

See above table.

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

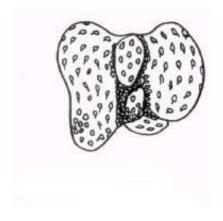
	Minimum samples to be taken (1Kg of			
	pro	product per each item)		
Quantity Delivered (Kg)	10Kg Boxes	20Kg Bags	25Kg Bags	
<1000	4	2	2	
<2000	8	5	4	
< 5000	10	7	5	
<10000	15	10	8	
≤27000	20	15	12	

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

Illustration of Defects

(i) Malformed

Figures 1 and 2 illustrate monkey face (nose) malformation



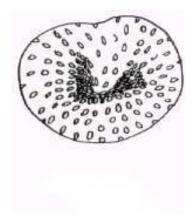
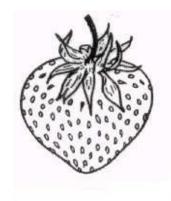


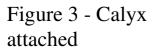
Figure 1

Figure 2

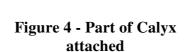
(j) Attached Calyx/Stalk

Figures 3, 4 and 5 illustrate berries from which the calyx has not been completely removed









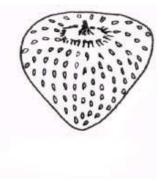


Figure 5 - Stalk point attached

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

Whole 22-26mm Manufacturing Strawberry

ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR Red, typical of the variety.

FLAVOUR Full, natural and characteristic strawberry flavour.

TEXTURE Berries shall be firm but tender, and shall have substantially

retained their shape.

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

MICROBIOLOGICAL

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

ANALYTICAL Brix 7 - 12 pH 3.2 - 3.6

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 e.g. if packed in May 2017 then BEST BEFORE END MAY 2019. Minimum BB date

on delivery: 3 months.

TRACEABILITY INFO Production date or Lot number printed on the label as

well as customer order number and/or delivery date.

STORAGE Keep frozen at - 18°C at all times. **CONDITIONS**

<u>CARTON LINERS</u> Blue food grade polythene liner of a minimum

thickness of 30µm.

<u>CARTONS</u> Corrugated fibreboard of glued construction, no metal

staples to be used. Shall be sealed using blue adhesive

tape.

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

NUTRITIONAL INFORMATION

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

100g of uncooked strawberry typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	27	McCance & Widdowson 6 th Edition
Energy - kJ	116	McCance & Widdowson 6 th Edition
Moisture	88.9g	McCance & Widdowson 6 th Edition
Carbohydrate	6.2g	McCance & Widdowson 6 th Edition
- as sugars	6.2g	McCance & Widdowson 6 th Edition
- as polyols	0.0g	McCance & Widdowson 6 th Edition
- as starch	0.0g	McCance & Widdowson 6 th Edition
Fat	Trace	McCance & Widdowson 6 th Edition
- as saturates	Trace	McCance & Widdowson 6 th Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 th Edition
- as poly unsaturates	Trace	McCance & Widdowson 6 th Edition
Protein	0.6g	McCance & Widdowson 6 th Edition
Fibre	2.0g	McCance & Widdowson 6 th Edition
Sodium	2mg	McCance & Widdowson 6 th Edition
Vitamin A	30µg	McCance & Widdowson 6 th Edition
Vitamin B ₆	0.0mg	McCance & Widdowson 6 th Edition
Vitamin B ₁₂	0.0mg	McCance & Widdowson 6 th Edition
Vitamin C	60mg	McCance & Widdowson 6 th Edition
Vitamin D	0.0μg	McCance & Widdowson 6 th Edition
Vitamin E	0.2mg	McCance & Widdowson 6 th Edition
Thiamin	0.0mg	McCance & Widdowson 6 th Edition
Riboflavin	0.03mg	McCance & Widdowson 6 th Edition
Niacin	0.0mg	McCance & Widdowson 6 th Edition
Folic Acid	20μg	McCance & Widdowson 6 th Edition
Biotin	1.0µg	McCance & Widdowson 6 th Edition
Pantothentic Acid	0.0mg	McCance & Widdowson 6 th Edition
Calcium	22mg	McCance & Widdowson 6 th Edition
Phosphorus	23mg	McCance & Widdowson 6 th Edition
Iron	0.7mg	McCance & Widdowson 6 th Edition
Magnesium	12mg	McCance & Widdowson 6 th Edition
Zinc	0.1mg	McCance & Widdowson 6 th Edition
Iodine	0.0μg	McCance & Widdowson 6 th Edition
Potassium	160mg	McCance & Widdowson 6 th Edition

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

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: Olah

Date: 1st May 2017

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: Osalv Date: 1st May 2017

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

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	YES	Strawberry 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 / Celeriac	NO				
Lupins	NO				

^{*}Including any product derived from slaughtered animals, e.g. gelatine, rennet

Is the material suitable for:

Vegetarians? Y / N Halal? Y / N (Not Certified) Organic? Y / N

Vegans? Y/N Kosher? Y/N (Not Certified)

<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>

FOOD ADDITIVES

E. Number	Name	In Which Ingredient	Function in Ingredient	Function in Final Product	% In Final Product
None					

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

^{**}Including wheat, corn, barley, rye, oats, etc.

PROCESS INFORMATION

PROCESS FLOW CHART*

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

STRAWBERRIES

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

COSHH Data For Frozen Fruits

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 frozen 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.

Please check our website (www.foodnet.ltd.uk) for updates on this spec.

Signed on behalf of Foodnet Ltd:-	
Name: Gianluca Oberto	Job Title: Technical Manager
Signature: Osah	Date: 1 st May 2017
Signed on behalf of the Customer:-	
Name:	Job Title:
Signature:	Date:

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen

Issues & Amendments

Issue	Amend.	Date	Amendments	Compiled by
N°	N°			
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

Doc Ref:	Issue date:	Issue No:	Prepared by:	Authorised by:
PRO-SPE	01.05.2017	2	G. Oberto	Rhys Owen