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## Product Specification

### 8-10mm Sliced Mixed Green, Red & Yellow Pepper

Date: 23<sup>rd</sup> September 2011

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**PACK SIZE**                      1 x 10kg

**ORIGIN:**                              Spain

**GENERAL**                              The product shall be prepared from fresh sound raw material that is free from all toxic residues and taints. The final product shall comply with all current U.K. and E.C. Food Legislation.

**INGREDIENTS**                      (*Capsicum annuum*)

Green Peppers	33 $\frac{1}{3}$ %	Declare as: Green Peppers
Red Peppers	33 $\frac{1}{3}$ %	Declare as: Red Peppers
Yellow Peppers	33 $\frac{1}{3}$ %	Declare as: Yellow Peppers

**PROCESSING**                              The peppers are delivered pre-cored and held in chill store at 2°C until required for processing. During processing the peppers are mixed, inspected, washed, sliced, washed, blanched, cooled in chlorinated water, inspected, frozen (-18°C or below) and stored in bulk at -23°C or below.

**PACKING**                                      During packing the mixed peppers 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.

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FN1002	23 <sup>rd</sup> June 2007	Four	Foodnet Ltd	Alan Gosling

8-10mm Sliced Mixed Green, Red & Yellow Pepper**QUALITY CONTROL** Checks are carried out on the following: -

Processing: - Raw material  
Peroxidase  
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** Product shall be checked at least hourly against the following tolerances for defects: -

<u>Per 1000g</u>	<u>Target</u>	<u>Maximum</u>
Clumps	2% w/w	5% w/w
Foreign Material	Nil	Nil
EVM (excluding seeds)	1	3
Stalk	1	2
Seeds	2	10
Major Blemish	1	10
Minor Blemish	5	15
Colour Variants	2% w/w	5% w/w
Length <20mm	8% w/w Max	12% w/w Max
Length >50mm	35% w/w Min	35% w/w Min
Defective Cut (<7 or >11mm)	5% w/w	8% w/w
Green Peppers	33 $\frac{1}{3}$ % w/w	±12% w/w
Red Peppers	33 $\frac{1}{3}$ % w/w	±12% w/w
Yellow Peppers	33 $\frac{1}{3}$ % w/w	±12% w/w

**DEFINITIONS OF DEFECTS****Clumps**

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

**Foreign Material**

This includes any material not derived from the pepper 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.

**Extraneous Vegetable Matter (EVM)**

Vegetable material derived from the pepper plant other than the pepper flesh e.g. pieces of core, leaf etc. Stalks and seeds from the pepper plant are counted separately. Vegetable material not from the pepper plant will be counted as Foreign material.

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These are pieces of stalk/calyx from the pepper plant.

**Seeds**

Any pepper seeds.

**Major Blemish**

This includes pepper slices that are blemished 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 slices.

**Minor Blemish**

This includes pepper slice that are blemished to the extent that the area affected is between 2mm and 6mm in diameter, either as a single blemish or an aggregate of blemishes on the same slice. Blemishes less than 2mm in diameter shall be ignored.

**Colour Variants**

This includes slices that are not a true colour, i.e. flamed.

**Length**

Slices that are outside the stated dimensions.

**Defective Cut**

These are slices that are either less than 7mm or greater than 11mm between the cut surfaces.

**ORGANOLEPSIS****COLOUR**

Fairly bright green, red or yellow but may be slightly non-uniform.

**FLAVOUR**

Slightly weak characteristic pepper flavour, with only slight bitterness.

**TEXTURE**

Fairly uniform, flesh may be slightly soft, skins may be slightly tough.



Average Sample

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Organism	Target	Maximum
T V C @ 30°C	1 x 10 <sup>4</sup>	1 x 10 <sup>5</sup>
Total Coliforms	1 x 10 <sup>2</sup>	1 x 10 <sup>3</sup>
E. coli	Nil	1 x 10 <sup>1</sup>
Yeasts & Moulds	1 x 10 <sup>2</sup>	1 x 10 <sup>3</sup>
Staph aureus	Absent/g	1 x 10 <sup>2</sup>
Salmonella	Absent in 25g	Absent in 25g
Listeria monocytogenes	Absent in 25g	1 x 10 <sup>2</sup>

**ANALYTICAL**

Product shall be blanched to give a trace positive peroxidase reaction (guaiacol 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 hourly using 3.5mm ferrous and non-ferrous & 4.5mm stainless steel test pieces.

**CODING**

Best Before End shall be twenty four months following the month of packing e.g. if packed 1<sup>st</sup> May 2011 then BEST BEFORE END MAY 2013 or BEST BEFORE 01/05/2013.

Production / Traceability Code Four figure International date code (Year number, Day number) plus factory identification code and shift code e.g. product packed 1 January 2011 = 1001 or 01/01/2011.

**CARTON LINERS**

Dark blue food grade polythene liner of a **minimum** thickness of 45µm.

**CARTONS**

Corrugated fibreboard of glued construction, no metal staples to be used. Shall be sealed using dark blue adhesive tape.

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8-10mm Sliced Mixed Green, Red & Yellow Pepper**NUTRITIONAL INFORMATION**

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

100g of uncooked green, red & yellow pepper typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	25	McCance & Widdowson 5 <sup>th</sup> Edition
Energy - kJ	106	McCance & Widdowson 5 <sup>th</sup> Edition
Moisture	91.4g	McCance & Widdowson 5 <sup>th</sup> Edition
Carbohydrate	4.6g	McCance & Widdowson 5 <sup>th</sup> Edition
- as sugars	4.3g	McCance & Widdowson 5 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 5 <sup>th</sup> Edition
- as starch	0.1g	McCance & Widdowson 5 <sup>th</sup> Edition
Fat	0.3g	McCance & Widdowson 5 <sup>th</sup> Edition
- as saturates	0.0g	McCance & Widdowson 5 <sup>th</sup> Edition
- as mono unsaturates	0.0g	McCance & Widdowson 5 <sup>th</sup> Edition
- as poly unsaturates	0.2g	McCance & Widdowson 5 <sup>th</sup> Edition
Protein	1.0g	McCance & Widdowson 5 <sup>th</sup> Edition
Fibre	1.6g	McCance & Widdowson 5 <sup>th</sup> Edition
Sodium	4mg	McCance & Widdowson 5 <sup>th</sup> Edition
Cholesterol	0.0mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin A	238µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin B <sub>6</sub>	0.33mg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin B <sub>12</sub>	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin C	130mg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin D	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin E	0.8mg	McCance & Widdowson 5 <sup>th</sup> Edition
Thiamin	0.01mg	McCance & Widdowson 5 <sup>th</sup> Edition
Riboflavin	0.02mg	McCance & Widdowson 5 <sup>th</sup> Edition
Niacin	0.7mg	McCance & Widdowson 5 <sup>th</sup> Edition
Folic Acid	29µg	McCance & Widdowson 5 <sup>th</sup> Edition
Biotin	0.0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Pantothenic Acid	0.08mg	McCance & Widdowson 5 <sup>th</sup> Edition
Calcium	8mg	McCance & Widdowson 5 <sup>th</sup> Edition
Phosphorus	22mg	McCance & Widdowson 5 <sup>th</sup> Edition
Iron	0.0mg	McCance & Widdowson 5 <sup>th</sup> Edition
Magnesium	13mg	McCance & Widdowson 5 <sup>th</sup> Edition
Zinc	0.0mg	McCance & Widdowson 5 <sup>th</sup> Edition
Iodine	1.0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Potassium	167mg	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: Alan Gosling Job Title: Technical Consultant

Signature:  Date: 23<sup>rd</sup> September 2011

**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: Alan Gosling Job Title: Technical Consultant

Signature:  Date: 23<sup>rd</sup> September 2011

Where any answer is YES, see details below.

Product or Material	Details of Genetic Modification

I confirm I have made any necessary enquiries and obtained relevant written assurances from suppliers to verify the accuracy of the details provided above. I confirm the above data supplied is correct and can be used without reservation to advise customers.

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<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/Celariac	NO	
Lupins	NO	
*Including any product derived from slaughtered animals, e.g. gelatine, rennet		
**Including wheat, corn, barley, rye, oats, etc.		
Is the material suitable for:		
Vegetarians?	Y / N	
Vegans?	Y / N	
Kosher?	Y / N	
Halal?	Y / N	
Organic?	Y / N	

**FOOD ADDITIVES**

<b>E. Number</b>	<b>Name</b>	<b>In Which Ingredient</b>	<b>Function in Ingredient</b>	<b>Function in Final Product</b>	<b>% In Final Product</b>
None					

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8-10mm Sliced Mixed Green, Red & Yellow Pepper**PROCESS INFORMATION****PROCESS FLOW CHART****SLICED MIXED PEPPERS**

Pre-cored Raw Material Receipt → QA Check

↓  
Mixing↓  
Inspection↓  
Washing↓  
Slicing↓  
Washing↓  
Blanching → 45 seconds @ 90-92°C **CCP1**↓  
Cooling↓  
Inspection **CCP2**↓  
Dewater↓  
Freezing → -18°C QA Check↓  
Weighing↓  
Carton Fill → QA Check↓  
Check Weigh↓  
Metal Detection → 3.5mm Fe / 3.5mm non Fe, 4.5mm stainless steel **CCP3**↓  
Palletise↓  
Cold Storage → -23°C↓  
Despatch → -18°C**CRITICAL CONTROL POINTS:**

to include time / temperature / frequency / target and sensitivity of all process steps.

CCP Number	Process Step	Controls in place
CCP1	Effective blanching to minimise microbiological loading. Half hourly checks.	Continuous chart recoding of temperature and guaiacol test for adequate blanching.
CCP2	Inspection of the product. Continuous control	To remove foreign material via manual inspection.
CCP3	Metal detector efficiency. Hourly checks.	Testing of detector using certified test pieces of 3.5mm Ferrous & 3.5mm non-Ferrous, 4.5mm stainless steel.

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## COSHH Data For Frozen Vegetables

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.

Signed on behalf of Foodnet Ltd:-

Name: Alan Gosling

Job Title: Technical Consultant

Signature:



Date: 23<sup>rd</sup> September 2011

Signed on behalf of the Customer:-

Name:

Job Title:

Signature:

Date:

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