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## Product Specification

### 13mm Sliced Spring Onion

Date: 21<sup>st</sup> June 2010

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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. The final product shall comply with all current U.K. and E.C. Food Legislation.

**INGREDIENTS** Spring Onions 100% Declare as: Onions  
(*Allium Fistulosum L var Caespitosum Makino*)

**PROCESSING** Spring onions are delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, peeled, cut, frozen and filled into bulk palletainers. The spring onions are sampled and assessed against specification. The palletainers are then labelled and transferred to the cold store, where they are stored at  $-23^{\circ}\text{C}$  until required for packing.

**PACKING** During packing, the spring onions are inspected before weighing and filling into blue poly lined cartons. The cartons are Best Before and Production date coded, check weighed and metal detected, palletised and stretch wrapped before being returned to store at  $-23^{\circ}\text{C}$  to await despatch.

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

<b><u>250g Sample</u></b> Clumps (>25g)	5% w/w
Foreign Material	Nil
E.V.M.	1
Discoloured Pieces	Nil
Undersize <6mm diameter, <10mm long	10% w/w
Oversize >12mm diameter, >15mm long	10% w/w

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

These are frozen slices of onion welded together to such an extent that they cannot be separated without causing damage to the slice. The weight of the slice occurring in the clumps shall be recorded and compared with the tolerance in the table.

**Foreign Material**

This includes any material not derived from the onion 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)**

This includes any vegetable material other than spring onion which is derived from the onion plant, or other harmless vegetable matter such as leaves.

**Undersize**

Any slice which has either a diameter of less than 6mm and/or a length of less than 10mm between the cut surfaces.

**Discoloured Pieces**

Any slice that has a colour other than the natural white to dark green typical of spring onion.

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**Oversize**

Any slice which has either a diameter of more than 12mm and/or a length of more than 15mm between the cut surfaces.

**ORGANOLEPSIS****COLOUR**

Bright, uniform mixture of green:white, typical of the product.

**FLAVOUR**

Full, characteristic fresh flavour, typical of spring onions.

**TEXTURE**

Uniformly tender, with no stringy tough material or hard basal root.



Average sample

**MICROBIOLOGICAL**

Organism	Target	Maximum
T V C @ 30°C	$1 \times 10^5$	$1 \times 10^6$
Total Coliforms	$1 \times 10^3$	$5 \times 10^3$
E. coli	Nil	$1 \times 10^1$
Yeasts	$1 \times 10^3$	$5 \times 10^3$
Listeria monocytogenes	Absent in 25g	$1 \times 10^2$
Salmonella	Absent in 25g	Absent in 25g

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**ANALYTICAL**

N/A – Un-blanching product

**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 5.0mm ferrous and 5.0mm non-ferrous 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 2010 then BEST BEFORE END MAY 2012 or BEST BEFORE 2010/05/01 .

Production / Traceability Code Four figure International date code (Year number, Day number) plus factory identification code and shift code e.g. product packed 1<sup>st</sup> January 2010 = **0001** (YDDD) or **2010/01/01**.

**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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**NUTRITIONAL INFORMATION**

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

100g of uncooked spring onion typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	23	McCance & Widdowson 6 <sup>th</sup> Edition
Energy - kJ	98	McCance & Widdowson 6 <sup>th</sup> Edition
Moisture	92.2g	McCance & Widdowson 6 <sup>th</sup> Edition
Carbohydrate	3.0g	McCance & Widdowson 6 <sup>th</sup> Edition
- as sugars	2.8g	McCance & Widdowson 6 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 6 <sup>th</sup> Edition
- as starch	0.2g	McCance & Widdowson 6 <sup>th</sup> Edition
Fat	0.5g	McCance & Widdowson 6 <sup>th</sup> Edition
- as saturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as poly unsaturates	0.4g	McCance & Widdowson 6 <sup>th</sup> Edition
Protein	2.0g	McCance & Widdowson 6 <sup>th</sup> Edition
Fibre	1.5g	McCance & Widdowson 6 <sup>th</sup> Edition
Sodium	13mg	McCance & Widdowson 6 <sup>th</sup> Edition
Cholesterol	0.0mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin A	620µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B <sub>6</sub>	0.13mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B <sub>12</sub>	0.0mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin C	26mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin D	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin E	0.0mg	McCance & Widdowson 6 <sup>th</sup> Edition
Thiamin	0.05mg	McCance & Widdowson 6 <sup>th</sup> Edition
Riboflavin	0.03mg	McCance & Widdowson 6 <sup>th</sup> Edition
Niacin	0.5mg	McCance & Widdowson 6 <sup>th</sup> Edition
Folic Acid	54µg	McCance & Widdowson 6 <sup>th</sup> Edition
Biotin	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Pantothenic Acid	0.07mg	McCance & Widdowson 6 <sup>th</sup> Edition
Calcium	7mg	McCance & Widdowson 6 <sup>th</sup> Edition
Phosphorus	29mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iron	1.9mg	McCance & Widdowson 6 <sup>th</sup> Edition
Magnesium	12mg	McCance & Widdowson 6 <sup>th</sup> Edition
Zinc	0.4mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iodine	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Potassium	260mg	McCance & Widdowson 6 <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: 21<sup>st</sup> June 2010

**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: 21<sup>st</sup> June 2010

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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### **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.		
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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**PROCESS INFORMATION****PROCESS FLOW CHART****SLICED SPRING ONIONS**

Raw Material Receipt → QA Check

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Storage → 2-5°C

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Trimming

↓

Inspection

↓

Washing → 1-2% Salt solution

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Washing → 5-8ppm Cl<sub>2</sub> **CCP1**

↓

Inspection

↓

Washing → 3-5ppm Cl<sub>2</sub>

↓

Cutting

↓

De-watering

↓

Freezing → -18°C QA Check

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Cold Storage → -23°C

↓

Tipping

↓

Inspection **CCP2**

↓

Carton Fill → QA Check

↓

Check Weigh

↓

Metal Detection → 5.0mm Fe / 5.0mm non Fe / 6.3mm stainless steel **CCP3**

↓

Palletise

↓

Cold Storage → -23°C

↓

Despatch → -18°C

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**CRITICAL CONTROL POINTS:**

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

CCP Number	Process Step	Controls in place
CCP1	Chlorine to minimise microbiology loading. Hourly checks.	Ensure Cl <sub>2</sub> level is kept between 5-8ppm.
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 5.0mm Ferrous & non-Ferrous, 6.3mm stainless steel.

**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: 21<sup>st</sup> June 2010

Signed on behalf of the Customer:-

Name:

Job Title:

Signature:

Date:

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