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## Product Specification

### Bean Sprouts

Date: 17<sup>th</sup> September 2008

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#### PACK SIZE

1 x 10kg

#### ORIGIN:

Holland / UK

#### 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

Bean sprouts 100%

Declare as: Bean sprouts  
(*Vigna radiata*)

#### PROCESSING

Beansprouts are delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, blanched, inspected, frozen and filled into bulk palletainers and stored in bulk at  $-23^{\circ}\text{C}$  or below.

#### PACKING

During packing the beansprouts 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  $-23^{\circ}\text{C}$  to await despatch at  $-18^{\circ}\text{C}$ .

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**QUALITY CONTROL** Checks are carried out on the following: -

- Processing: - Raw material  
Final Product  
Peroxidase  
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: -**Per 1Kg**

Foreign Matter Nil  
E.V.M. Nil

**Per 250g**

Rotten / Blemished 5  
Long Pieces 5  
Short Pieces 40  
Un-germinated 5% w/w  
Testa 2% w/w  
Discolouration 1% w/w

**DEFINITIONS OF DEFECTS****Foreign Material**

Any material not derived from the bean sprouts or defined as EVM, e.g. insects, wood, metal, glass, stone or toxic vegetable matter, which will render the product unacceptable.

**EVM**

Any extraneous vegetable material originating from the Bean sprout plant.

**Rotten / Blemished**

Bean sprouts showing signs of rot or dark discolouration.

**Long Pieces**

Bean sprouts which are greater than 10cm in length.

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**Short Pieces**

Broken bean sprouts less than 25mm in length.

**Un-germinated**

Un-germinated seeds, with or without green testa and cotyledons, with shoots of less than 5mm length, damaged or otherwise.

**Testa**

Loose pieces of green testa of any size.

**Discolouration**

Bean sprouts with any part of the cotyledons or stem partially or wholly blue in colour.

**ORGANOLEPSIS** (Carried out on a cooked sample.)**COLOUR**

Characteristic bright colour typical of bean sprouts.

**FLAVOUR**

Natural and characteristic bean sprout flavour.

**TEXTURE**

Tender and firm, with a yielding bite.



Average Sample

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**MICROBIOLOGICAL**

Organism	Target	Maximum
T V C @ 30°C	1 x 10 <sup>5</sup>	5 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>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 & 6.0mm stainless test pieces.

**CODING**

Best Before End shall be twenty four months following the month of packing e.g. if packed in May 2008 then **BEST BEFORE END MAY 2010**.

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 2008 = **8001**.

**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 bean sprouts typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	31	McCance & Widdowson 5 <sup>th</sup> Edition
Energy - kJ	131	McCance & Widdowson 5 <sup>th</sup> Edition
Moisture	90.4g	McCance & Widdowson 5 <sup>th</sup> Edition
Carbohydrate	3.7g	McCance & Widdowson 5 <sup>th</sup> Edition
- as sugars	2.1g	McCance & Widdowson 5 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 5 <sup>th</sup> Edition
- as starch	1.6g	McCance & Widdowson 5 <sup>th</sup> Edition
Fat	0.5g	McCance & Widdowson 5 <sup>th</sup> Edition
- as saturates	0.1g	McCance & Widdowson 5 <sup>th</sup> Edition
- as mono unsaturates	0.1g	McCance & Widdowson 5 <sup>th</sup> Edition
- as poly unsaturates	0.3g	McCance & Widdowson 5 <sup>th</sup> Edition
Protein	2.9g	McCance & Widdowson 5 <sup>th</sup> Edition
Fibre	1.5g	McCance & Widdowson 5 <sup>th</sup> Edition
Sodium	5mg	McCance & Widdowson 5 <sup>th</sup> Edition
Cholesterol	0g	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin A	7µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin B <sub>6</sub>	0.10mg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin B <sub>12</sub>	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin C	7mg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin D	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Vitamin E	0.00mg	McCance & Widdowson 5 <sup>th</sup> Edition
Thiamin	0.11mg	McCance & Widdowson 5 <sup>th</sup> Edition
Riboflavin	0.04mg	McCance & Widdowson 5 <sup>th</sup> Edition
Niacin	0.5mg	McCance & Widdowson 5 <sup>th</sup> Edition
Folic Acid	61µg	McCance & Widdowson 5 <sup>th</sup> Edition
Biotin	0.0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Pantothenic Acid	0.38mg	McCance & Widdowson 5 <sup>th</sup> Edition
Calcium	20mg	McCance & Widdowson 5 <sup>th</sup> Edition
Phosphorus	48mg	McCance & Widdowson 5 <sup>th</sup> Edition
Iron	1.7mg	McCance & Widdowson 5 <sup>th</sup> Edition
Magnesium	18mg	McCance & Widdowson 5 <sup>th</sup> Edition
Zinc	0.3mg	McCance & Widdowson 5 <sup>th</sup> Edition
Iodine	0µg	McCance & Widdowson 5 <sup>th</sup> Edition
Potassium	74mg	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: 17<sup>th</sup> September 2008

**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: 17<sup>th</sup> September 2008

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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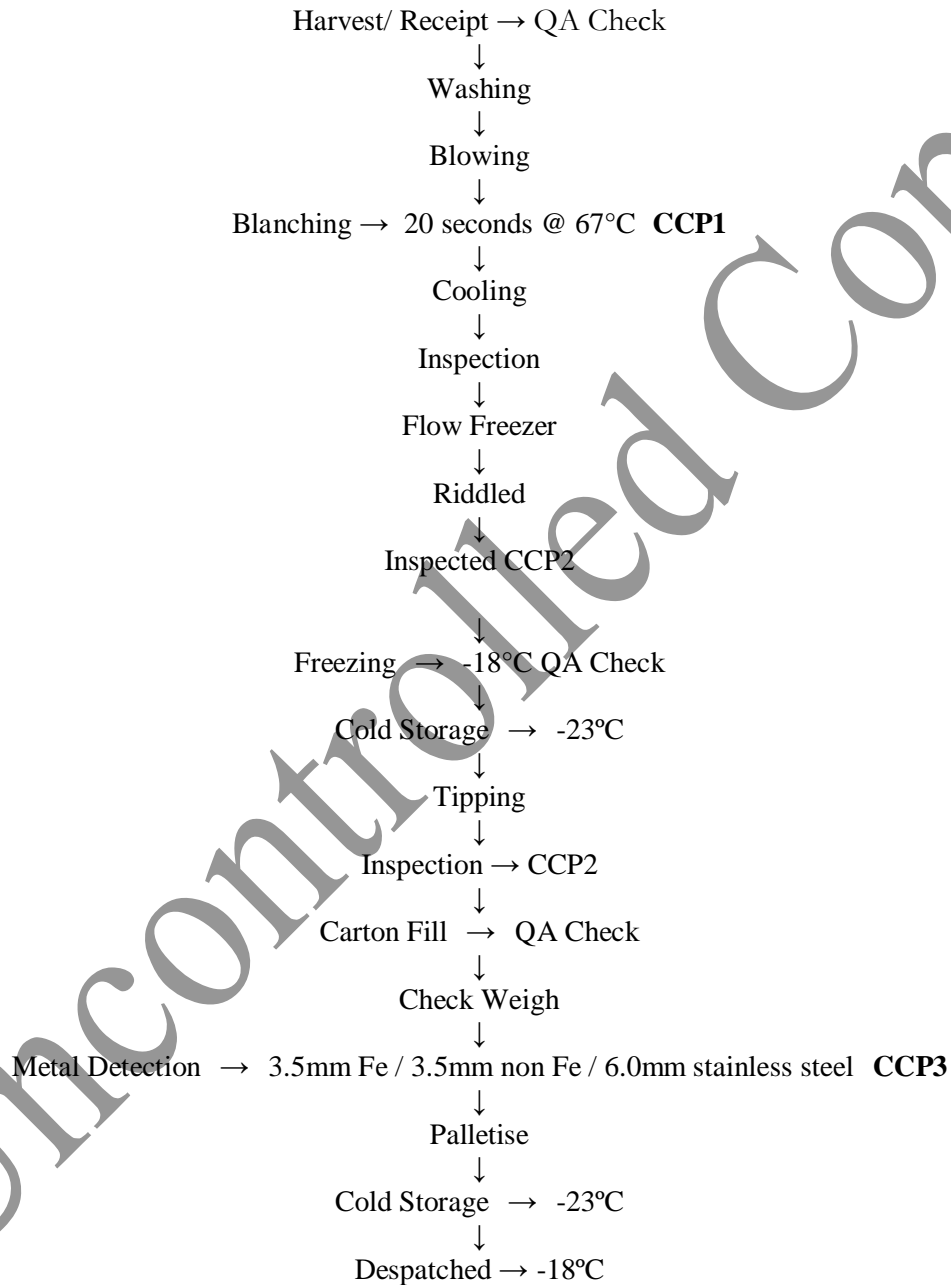
**FOOD INTOLERANCE**

<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/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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**PROCESS INFORMATION****PROCESS FLOW CHART****BEAN SPROUTS**

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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	Effective scalding to minimise microbiological loading. Half hourly checks.	Continuous chart recoding of temperature for adequate scalding.
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 and non-Ferrous & 6.0mm 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: 17<sup>th</sup> September 2008

Signed on behalf of the Customer:-

Name:

Job Title:

Signature:

Date:

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