



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: Adzuki Beans	Last Update: 31/01/2020	Product Code: BEA001

PACK SIZE 1 x 12Kg; 1 x 10kg;

ORIGIN: USA / Canada / China

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 Adzuki Beans 100% Declare as: Adzuki Beans
(*Vigna angularis*)

PROCESSING Adzuki bean pods are delivered to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then soaked, blanched, frozen and filled into bulk palletainers. The frozen adzuki beans are sampled and assessed against specification. The palletainers are then labelled and transferred to the cold store, where they are stored at –18°C until required for packing.

PACKING During packing, the beans 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 –18°C to await despatch.

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

Per 500g

Clumps	15%w/w
Foreign Matter	Nil
E.V.M.	Nil
Damaged and split Beans	5% w/w
Size	6 – 14mm

DEFINITIONS OF DEFECTS

Clumps

5 or more beans welded together that cannot be separated without causing damage to the product.

Foreign Material

This includes any material not derived from the adzuki bean plant or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, toxic berries, snails, slugs or any other material which will render the product unacceptable.

Extraneous Vegetable Matter (EVM)

This includes any harmless vegetable matter other than bean which is derived from the adzuki bean plant or harmless vegetable material such as leaves or pod.

Damaged & Split Beans

These are beans which are not whole and complete, and includes beans which have been physically crushed, damaged or broken by mechanical means and also pieces of beans such as separate broken or whole cotyledons and loose skin. Damage by natural agencies is also included. Split beans are those where the testa is split to more than 50% of its length, but in which the cotyledons remain complete.

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

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ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR Characteristic brown colour, but may lack uniformity throughout the sample.

FLAVOUR Slight weak characteristic flavour, typical of the variety. May be slightly bitter.

TEXTURE Flesh slightly firm and/or slightly mealy. The skins may be rather firm or slightly tough.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
<i>TVC @ 30°C</i>	1×10^5	5×10^5
<i>Total Coliforms</i>	5×10^2	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

Lectin Haemagglutination. Test shall give results <400 HAU.

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.

SACKS

Blue food grade polythene sack of a minimum thickness of 110µm.

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NUTRITIONAL INFORMATION

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

100g of uncooked adzuki beans typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	272	USDA Reference Release 28
Energy - kJ	1158	USDA Reference Release 28
Moisture	12.7g	USDA Reference Release 28
Carbohydrate	50.1g	USDA Reference Release 28
- as sugars	1.0g	USDA Reference Release 28
- as polyols	0.0g	USDA Reference Release 28
- as starch	44.7g	USDA Reference Release 28
Fat	0.5g	USDA Reference Release 28
- as saturates	0.2g	USDA Reference Release 28
- as mono unsaturates	0.2g	USDA Reference Release 28
- as poly unsaturates	0.1g	USDA Reference Release 28
Protein	19.9g	USDA Reference Release 28
Fibre	11.1g	USDA Reference Release 28
Sodium	5mg	USDA Reference Release 28
Vitamin A	12µg	USDA Reference Release 28
Vitamin B ₆	0.0mg	USDA Reference Release 28
Vitamin B ₁₂	0 µg	USDA Reference Release 28
Vitamin C	Trace	USDA Reference Release 28
Vitamin D	0 µg	USDA Reference Release 28
Vitamin E	0 ug	USDA Reference Release 28
Thiamin	0.45mg	USDA Reference Release 28
Riboflavin	0.22mg	USDA Reference Release 28
Niacin	2.6mg	USDA Reference Release 28
Folic Acid	0 µg	USDA Reference Release 28
Biotin	0 µg	USDA Reference Release 28
Pantothenic Acid	0.0mg	USDA Reference Release 28
Calcium	84.0mg	USDA Reference Release 28
Phosphorus	380.0mg	USDA Reference Release 28
Iron	4.2mg	USDA Reference Release 28
Magnesium	130.0mg	USDA Reference Release 28
Zinc	5.0mg	USDA Reference Release 28
Iodine	0 µg	USDA Reference Release 28
Potassium	1220mg	USDA Reference Release 28

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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	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.				
<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
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
None					

COSHH Data

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 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: 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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PROCESS INFORMATION

PROCESS FLOW CHART*

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

ADZUKI BEANS

Raw Material Receipt → QA Check



Pass over stone trap



Soak



Pass over stone trap



Blanching



Cooling



Freezing → -18°C QA Check



Inspection



Cold Storage → -18°C



Tipping



Inspection



Carton Fill → QA Check



Check Weigh



Metal Detection → QA Check



Palletise



Cold Storage → -18°C



Despatch → -18°C

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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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