

Technical Specification		
Product:	Last Update:	Product Code:
Choi Sum Cut 4CM	31/01/2020	CHI013

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 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 Choi Sum 100% Declare as: Choi Sum

(Brassica chinensis var. parachinensis)

PROCESSING Choi Sum are delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, washed, length cut 4cm, blanched, cooled, inspected, frozen and filled into bulk palletainers. The cut Choi Sum 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.

<u>PACKING</u> During packing, choi sum 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 -18°C to await despatch to the UK at -18°C.

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 1000g	<u>Target</u>	<u>Maximum</u>
Clumps	1% w/w	2% w/w
Foreign Matter	Nil	Nil
Insect Damage	Nil	Nil
Choi Sum Flowers	Nil	Nil
Leaves	30% w/w	20% w/w
Stem	70% w/w	80% w/w
Colour Variants	2% w/w	5% w/w
Length >6cm	Nil	Nil
Length >5.0 cm	5% w/w	10% w/w
Length < 3.0cms	5% w/w	10% w/w
Diameter > 19mm	Nil	Nil
Diameter > 13mm	5% w/w	10 % w/w

DEFINITIONS OF DEFECTS

Clumps

This is where 3 or more slices are welded together so that the slices cannot be readily separated without causing damage to the slices.

Foreign Material

This includes any material not derived from the Choi Sum plant. Examples of Foreign Matter include insects, pieces of insects, wood, glass, stones, metal, toxic berries, seed or flower heads, snails, slugs or any other material which will render the product unacceptable.

Insect Damage

This includes slices with damage caused by insects.

Choi Sum Flowers

This includes any Choi Sum flowers caused by over maturity.

Colour Variants

This refers to any unit that is brown in colour and is conspicuously different in colour from the normal green of the rest of the sample. Stems with a pale/yellowish tinge are not classified as Colour Variant.

Size

See table for definitions.

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

	Minimum sa	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	

ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR Light green stems with dark green leaves.

FLAVOUR Typical of Choi Sum with no off flavours.

TEXTURE Stalks shall be firm without woodiness, leaves shall be tender.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
T V C @ 30℃	5 x 10 ⁵	1 x 10 ⁶
Total Coliforms	1 x 10 ²	5 x 10 ³
E. coli	Nil	1 x 10 ²
Listeria mono	Absent in 25g	1 x 10 ²
Salmonella	Absent in 25g	Absent in 25g

ANALYTICAL Product shall be blanched to give a negative peroxidase reaction (guaiacol test) between 50 and 60 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 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.

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NUTRITIONAL INFORMATION

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

100g of uncooked choi sum typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	12	USDA version SR20
Energy - kJ	48	USDA version SR20
Moisture	95.5g	USDA version SR20
Carbohydrate	1.8g	USDA version SR20
- as sugars	0.8g	USDA version SR20
- as polyols	0.0g	USDA version SR20
- as starch	Trace	USDA version SR20
Fat	0.2g	USDA version SR20
- as saturates	Trace	USDA version SR20
- as mono unsaturates	Trace	USDA version SR20
- as poly unsaturates	0.1g	USDA version SR20
Protein	1.6g	USDA version SR20
Fibre	1.0g	USDA version SR20
Sodium	34mg	USDA version SR20
Vitamin A	0µg	USDA version SR20
Vitamin B6	0.2mg	USDA version SR20
Vitamin B12	μg	USDA version SR20
Vitamin C	0.3mg	USDA version SR20
Vitamin D	0µg	USDA version SR20
Vitamin E	0.09mg	USDA version SR20
Thiamin	0.3mg	USDA version SR20
Riboflavin	0.6mg	USDA version SR20
Niacin	0.4mg	USDA version SR20
Folic Acid	41µg	USDA version SR20
Biotin	0μg	USDA version SR20
Pantothentic Acid	0.8mg	USDA version SR20
Calcium	93mg	USDA version SR20
Phosphorus	29mg	USDA version SR20
Iron	1.04mg	USDA version SR20
Magnesium	11mg	USDA version SR20
Zinc	0.17mg	USDA version SR20
Iodine	0µg	USDA version SR20
Potassium	371mg	USDA version SR20

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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: Usa Date: 31st January 2020

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FOOD INTOLERANCE

Food Intolerance Data Does the material supplied contain as	w of the fall	ing? (NO) Absent (VES) Decemb
Does the material supplied contain ar Allergen	NO / YES	Reason for presence if YES
Milk & Milk Derivatives	NO	The second secon
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	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/Celeriac	NO	
Lupins	NO	

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

<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>

			-
le thic	product	Suitable	tor:

Vegans	Yes (Not certified)	Vegetarians	Yes	Organic	No
Halal	Yes (Not certified)	Kosher	Yes (Not certified)		

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



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FOOD ADDITIVES

E.	Name	In Which	Function in	Function in Final	% In Final
Number		Ingredient	Ingredient	Product	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.

Signed on behalf of Foodnet Ltd:

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.

Name: Gianluca Oberto

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.

CUT CHOI SUM

Delivery \rightarrow QA Check Yellow leaves removal Marinating (Salt 2% - 10 min) Slicing Inspection Washing (salt 1%) Rinsing (water only) Blanching Cooling Inspection Freezing \rightarrow -18°C QA Check Inspection Carton Fill → QA Check Check Weigh Metal Detection → QA Check **Palletise** Cold Storage → -18°C

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Despatch → -18°C



Issues & Amendments

Issue N°	Amend. N°	Date	Amendments	Compiled by
1	1	01/02/2016	New entry	G. Oberto
			Defect tolerances – minimum ref samples; Reviewed BB and Traceability info. Added Storage Conditions.	
2	1	01/05/2017	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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