



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: Quarter Cut Shiitake Mushrooms Unblanched IQF	Last Update: 31/01/2023	Product Code: MUS036
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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 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 (minimum of +75°C for 30 seconds).

INGREDIENTS Shiitake Mushroom 100% Declare as: Shiitake Mushroom
(*Lentinula edodes*)

PROCESSING Shiitake mushrooms are delivered fresh to the factory, each load is quality assurance sampled for foreign material and physical defects. The load is then put in a chill store (3°C) before washing, trimming, inspection before cutting into quarters and freezing to -18°C or below.

PACKING During packing the mushrooms 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.

DEFECT TOLERANCES

<u>Per 250g</u>	<u>Maximum</u>
Clumps	10 pieces
Foreign Material	Nil
EVM	1
Major Blemish	3
Minor Blemish	6
Oversize >40mm	5% w/w
Undersize <20mm	10% w/w
Broken Pieces <15mm	3% w/w

DEFINITIONS OF DEFECTS

Clumps

This is where 3 or more quarters are welded together which cannot be readily separated without causing damage to the dice. The number of quarters shall be counted and reference made to the defects table.

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Foreign Material

This includes any material other than that derived from the mushroom or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, paint, grease, oil, foreign vegetable material or any other material which would render the product unacceptable.

EVM

This includes any free vegetable matter which is derived from the mushroom eg. root-like hyphae.

Major Blemish

This includes shiitake quarters that are blemished by bruising, disease, mechanical or any other agency 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 quarter.

These are mushrooms which when measured across the widest point, measure greater than 35mm.

Minor Blemish

These are quarters which are discoloured or blemished by bruising, disease, mechanical or any other agency so that an area greater than 2mm diameter and equal to or less than 6mm is affected either as a single blemish or an aggregate of blemishes on the same quarter.

Blemishes equal to or less than 2mm shall be ignored.

Oversize

This is the measurement of mushroom pieces across the cap which exceeds 40mm.

Undersize

This is the measurement of mushroom pieces across the cap which is less than 20mm

Broken Pieces

These are pieces of mushroom less than 15mm.

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ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR

Brown to reddish brown coloured mushrooms. There may be very slight non-uniformity in colour amongst the mushrooms.

FLAVOUR

Full characteristic chestnut mushroom flavour. May be slightly earthy, with no harsh flavours.

TEXTURE

Uniformly firm and tender, yielding to the bite.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
<i>TVC @ 30°C</i>	5×10^5	5×10^6
<i>Total Coliforms</i>	3×10^3	1×10^4
<i>E. coli</i>	1×10^1	1×10^2
<i>Listeria mono</i>	Absent in 25g	1×10^2
<i>Salmonella</i>	Absent in 25g	Absent in 25g

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 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 shiitake mushroom typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	65	McCance & Widdowson 5 th Edition
Energy - kJ	277	McCance & Widdowson 5 th Edition
Moisture	83.5g	McCance & Widdowson 5 th Edition
Carbohydrate	14.3g	McCance & Widdowson 5 th Edition
- as sugars	4.1g	McCance & Widdowson 5 th Edition
- as polyols	0.0g	McCance & Widdowson 5 th Edition
- as starch	9.2g	McCance & Widdowson 5 th Edition
Fat	0.2g	McCance & Widdowson 5 th Edition
- as saturates	0.1g	McCance & Widdowson 5 th Edition
- as mono unsaturates	0.1g	McCance & Widdowson 5 th Edition
- as poly unsaturates	0.0g	McCance & Widdowson 5 th Edition
Protein	1.6g	McCance & Widdowson 5 th Edition
Fibre	2.1g	McCance & Widdowson 5 th Edition
Sodium	4mg	McCance & Widdowson 5 th Edition
Vitamin A	0µg	McCance & Widdowson 5 th Edition
Vitamin B ₆	0.18mg	McCance & Widdowson 5 th Edition
Vitamin B ₁₂	0µg	McCance & Widdowson 5 th Edition
Vitamin C	1.0mg	McCance & Widdowson 5 th Edition
Vitamin D	0µg	McCance & Widdowson 5 th Edition
Vitamin E	0.12mg	McCance & Widdowson 5 th Edition
Thiamin	0.09mg	McCance & Widdowson 5 th Edition
Riboflavin	0.31mg	McCance & Widdowson 5 th Edition
Niacin	3.2mg	McCance & Widdowson 5 th Edition
Folic Acid	44µg	McCance & Widdowson 5 th Edition
Biotin	12µg	McCance & Widdowson 5 th Edition
Pantothenic Acid	2.0mg	McCance & Widdowson 5 th Edition
Calcium	6.0mg	McCance & Widdowson 5 th Edition
Phosphorus	80mg	McCance & Widdowson 5 th Edition
Iron	0.6mg	McCance & Widdowson 5 th Edition
Magnesium	9.0mg	McCance & Widdowson 5 th Edition
Zinc	0.4mg	McCance & Widdowson 5 th Edition
Iodine	3µg	McCance & Widdowson 5 th Edition
Potassium	320mg	McCance & Widdowson 5 th Edition

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GMO DECLARATION

I confirm that this product is not genetically modified or produced from genetically modified organisms. No genetically modified organisms have been used as processing aids or additives. This product does not require specific GM labelling as per Regulation (EC) 1829/2003.

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 


Date: 31st January 2023

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 2023

COSHH Data

Treat as you would any frozen material i.e. if engaged in prolonged handling of the fruit wear gloves.

Care should be used when lifting full cases of frozen fruits.

There are no other perceived COSHH implications regarding the use of frozen fruits.

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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/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/Celериac	NO			
Lupins	NO			
*Including any product derived from slaughtered animals, e.g. gelatine, rennet				
**Including wheat, corn, barley, rye, oats, etc.				
Please be aware the manufacturing sites we supply this item from may handle allergens in production. Procedures are in place to prevent cross-contamination.				
Is this product Suitable for:				
Vegans	Yes (Not certified)	Vegetarians	Yes	Organic No
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

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 2023

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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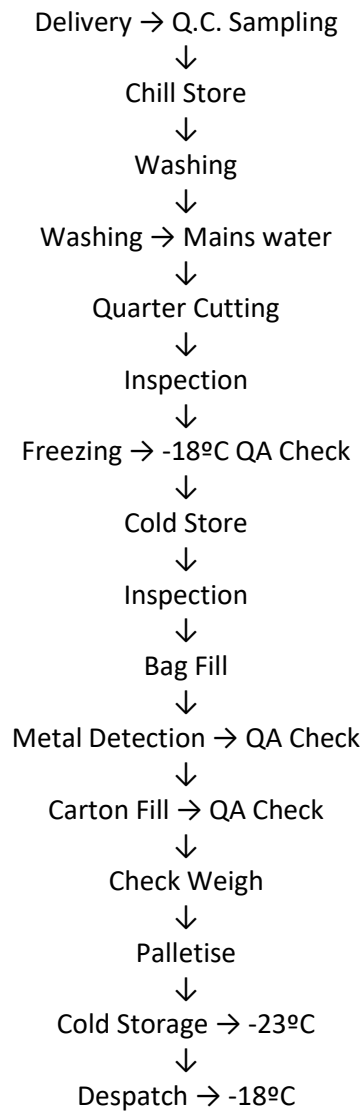
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PROCESS INFORMATION

PROCESS FLOW CHART*

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

QUARTER CUT SHIITAKE MUSHROOMS



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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
4	1	31/01/2023	3 Year update – general revision	F. Soares

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