

Product Specification: Frozen Shell On Langoustine Tails – Single weight labels
Scientific Name: *Nephrops norvegicus*

Contact Details



Macduff Shellfish (Scotland) Ltd
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Product Information

Product Name	Frozen Shell On Langoustine Tails
Scientific Name	<i>Nephrops norvegicus</i>
Vessel Catch Details	Caught Using Otter Twin Trawl
Processing Details	Langoustine Tails are size graded, frozen, passed through a fresh water glaze, packaged and metal detected at the Mintlaw processing facility
Ingredients	Langoustine Tails / Sodium Metabisulphate
Allergens	Shellfish (Crustacean) / SO2
Preparation Instructions	Cook fully prior to consumption. Do not refreeze thawed product.
Shelf Life	24 Months

Quality Control Standards

Defect Types

- **Food Safety Defect:** Any defects that may pose a risk to consumers of the product. These defects include objectionable material (metal, wood, plastic, etc) as well as shells.
- **Process Defect:** These defects are caused by the processing equipment. The Processing Facility can manage process defects by making adjustments to production settings, either equipment adjustments or production flow.

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Author: Kati Reisel

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Validator: Iona Cameron

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Defect	Definition	Testing State	Maximum Defect Level per 1Kg
Food Safety Defects			
		Frozen	
Objectionable Matter	Any object not associated with the product (metal, plastic, wood)	Frozen	0

Defect	Definition	Testing State	Maximum Defect Level per 1Kg
Process Defects			
Melanosis	Melanosis is not permitted	Fresh/Frozen	Absent
Berries / Eggs	Berries / eggs may be present	Fresh/Frozen	Acceptable

Control Point	Method	Testing State	Accept
Inspection & Testing Criteria			
Labelling	Visual: Sign off by Label Technician, QC, and Production Staff. Single weight labels used (700g Net weight printed on the bag labels, 7Kg Net weight printed on the case labels).	N/A	Compliant
Packaging	Visual	N/A	Compliant
Product Core Temperature	Regular Temperature Checks completed	Fresh & Frozen	<5°C <-18°C
Glaze	30% – Glaze Checks completed	Frozen	Compliant
SO2 Residue	SO2 tests on all Intake Batches and weekly tests to External Lab	Fresh	Compliant
Weights	Weights checked regularly by QC/Production Staff	Fresh/Frozen	Compliant

Attribute	Testing State	Accept
Organoleptic Properties for Raw Material		
Colour	Thawed/Cooked	Bright Shell, Pale pink to pink/orange-red. Meat white, clean
Odour	Thawed/Cooked	Mild shellfish smell. Marine, sea weedy
Flavour	Thawed/Cooked	Very/ intensely sweet. metallic
Texture	Thawed/Cooked	Flesh moist. Good bite to flesh, firm meat

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Test	
SO2 Analysis – Performed In House and External at Eurofins Grimsby Laboratory	
SO2 - Internal	Sampled Daily - <150ppm
SO2 - External	Sampled Weekly - <150ppm

Nutritional Information	Composition per 100g
Nutritional Analysis – Performed at External at Eurofins Grimsby Laboratory – Tested August 2018	
KJ/kcal	286/67
Protein	15.4g
Carbohydrate	1.4g
Of Which Sugars	<0.1g
Fat	<0.2g
Of which saturates	<0.1g
Fibre	<0.6g
Salt Equivalent	0.85g
Of which Sodium	0.34g

Test	Target	Unsatisfactory
TVC	<5.0 x 10 ⁴	>5.0 x 10 ⁵
Escherichia coli	< 10	>100
Staphylococcus aureus	< 50	>100
Salmonella	Not Detected	Present

Test	
Heavy Metal Tests – Performed Externally at Eurofins Wolverhampton Laboratory	
Lead	Sampled Annually – 0.50mg/Kg
Cadmium	Sampled Annually – 0.50mg/Kg
Mercury	Sampled Annually – 0.50mg/Kg

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Allergen Information

Allergens and Sensitive Questions:			
Allergen Info	Present in Product	Present on Site	Source
1 – Celery/Celeriac	X	X	
2 – Egg/Egg Products	X	X	
3 – Fish/Fish Products	X	✓	King Scallop by catch handled on site
4 – Wheat Gluten	X	X	
5 – Rye Gluten	X	X	
6 – Barley Gluten	X	X	
7 – Oat Gluten	X	X	
8 – Spelt Gluten	X	X	
9 – Kamult Gluten	X	X	
10 – Milk/Milk Products	X	X	
11 – Mustard/Mustard Products	X	X	
12 – Nuts/Nut Products	X	X	
13 – Peanuts/Peanut Products	X	X	
14 – Sesame Seed/Sesame Products	X	X	
15 – Crustacea	✓	✓	Langoustines, Brown Crab and Velvet Crab Present on site – segregation in place
16 – Molluscs	X	✓	Scallops and Whelks (seasonal) are on site – segregation in place
17 – Soya/Soya Products	X	X	
18 – Sulphites	✓	✓	Sodium Metabisulphite used on site for Prawns
19 – Lupin/Lupin Products	X	X	
20 – Pine Nuts/Pine Kernels	X	X	
21 – Coconut	X	X	
22 – Yeast/Yeast Extract			
ADDITIVES			
23 – Genetically Modified Ingredients	X	X	
24 – Additives	X	X	
25 – Preservatives	X	X	
26 – Natural Colour(s)	X	X	
27 – Artificial Colour(s)	X	X	
28 – Natural Flavourings	X	X	
29 – Artificial Flavouring(s)	X	X	
30 – Antioxidants	X	X	
31 – Artificial Sweeteners	X	X	

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Packaging Information

Size Grade

Grade
0 – 10
10 – 20
20 – 30
30 – 45

Pack Formats

Units Per Box	Weight Per Unit	Master Weight
10	1Kg	10Kg
Glaze %	Weight (Net) per bag	Gross Weight per gab
30	700g	1Kg

Packaging Details

Attribute	Details
Primary	1Kg Plain Bag – 240mm x 345mm 1Kg Printed Bag – 340mm x 240mm
Secondary	Cardboard Outer Case – 400(l) x 290(w) x 221(h) mm
Pallet wrap	Hand held stretch film
Pallet Configuration	64 Cases (8 layers on a pallet, 8 cases per pallet)
Storage Conditions	Product must have a minimum core temperature of -18°C. In cold storage product must be stored in a minimum temperature of -18°C. Frozen product should remain packaged or covered during storage.

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Shell On Langoustine Tails



Berries/Eggs



Shell On Langoustine Tails Defects

Melanosis



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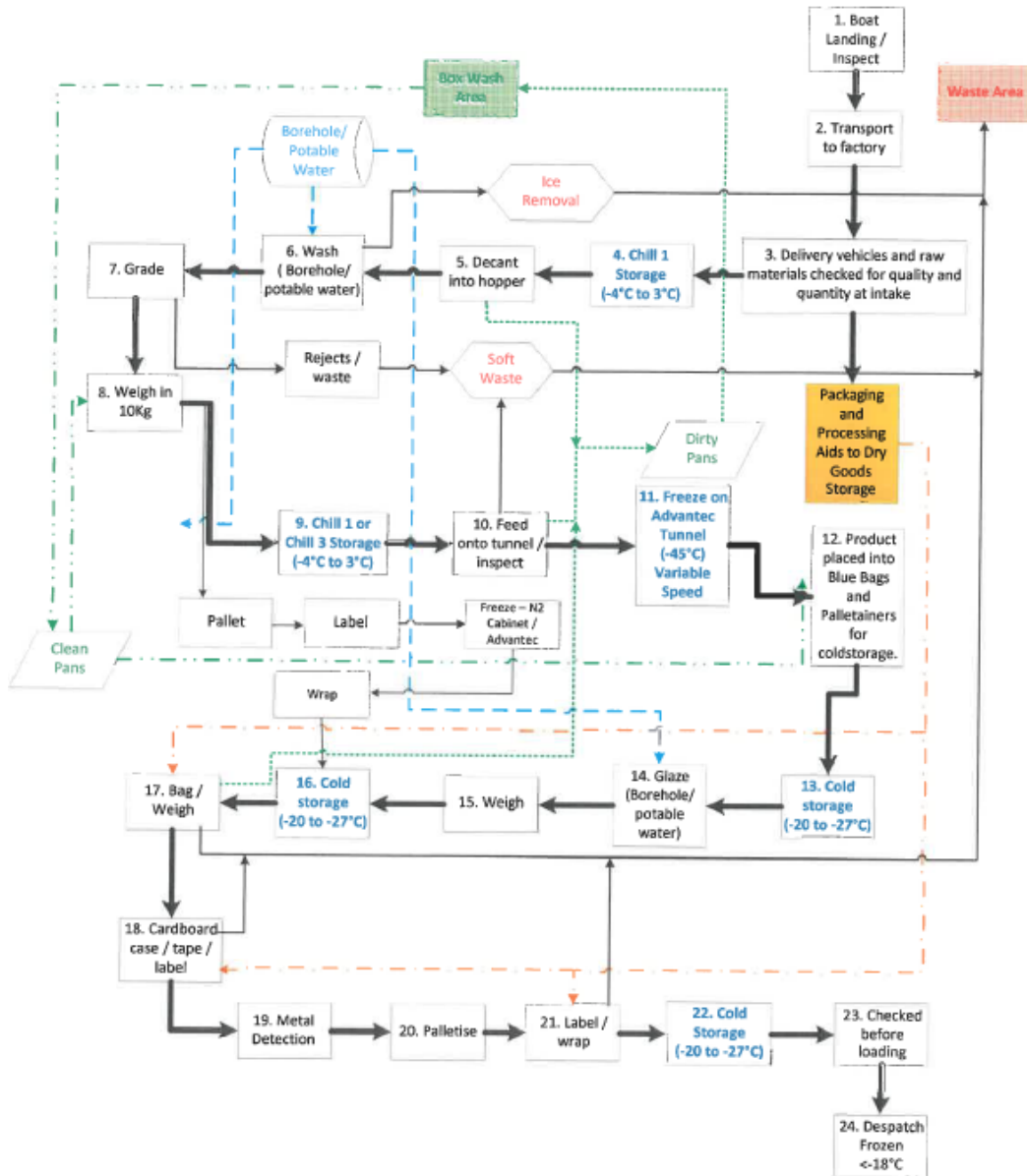
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Langoustine Tail Glazed Bag Process Flow Diagram



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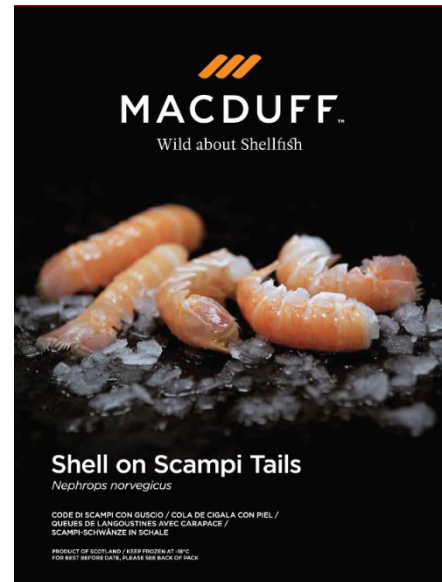
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Primary Packaging

1Kg Plain Bag – 240mm x 345mm



1Kg Printed Bag – 340mm x 240mm



Secondary Packaging

Cardboard Outer Case – 400(l) x 290(w) x 221(h) mm



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Revision Log

Revision Number	Description of Edits	Editor	Approved By	Date
001	Specification Created	Kati Reisel	Iona Cameron	28/11/2019

Approval

Name	Signature	Position	Date
Iona Cameron		Head Of Quality	
Duncan Watt		Head Of Operations	
John Stott		Business Development Director	

Specification Approved By Customer:

Sign:

Date:

Please return a signed copy of the specification by email or fax to i.cameron@macduffshellfish.co.uk

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