

Product Specification: Frozen Shell Off Langoustine Tails

Scientific Name: *Nephrops norvegicus*

Contact Details



Macduff Shellfish (Scotland) Ltd
Station Road
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Product Information

Product Name	Frozen Shell Off Langoustine Tails
Scientific Name	<i>Nephrops norvegicus</i>
Vessel Catch Details	Caught Using Otter Twin Trawl
Processing Details	Langoustine Tails are size graded, peeled, frozen, passed through a fresh water glaze, packaged and metal detected at the Mintlaw processing facility
Ingredients	Langoustine Tails / Water / Phosphates (E451)
Origin of Product	Scotland
Catch Area	FAO 27 – North Sea and West of Scotland
Allergens	Shellfish (Crustacean)
Preparation Instructions	Cook fully prior to consumption. Do not refreeze thawed product.
Shelf Life	24 Months
Product Code	231020, 231066, 231067, 231068, 231069,

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

Revision Number: 001
Validator: Iona Cameron

Revision Date: 19th March, 2020
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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
Green Sack	Green Sac may be present	Fresh/Frozen	Acceptable
Veins	Veins – visible	Fresh/Frozen	5% Visible Vein permitted

Control Point	Method	Testing State	Accept
Inspection & Testing Criteria			
Labelling	Visual: Sign off by Label Technician, QC, and Production Staff. Single weight labels used (600g Net weight printed on the bag labels, 6Kg 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	40% – Glaze Checks completed	Frozen	Compliant
SO2 Residue	SO2 tests on all Intake Batches for raw material (Shell On Tails) and weekly tests to External Lab	Fresh	Compliant
Weights	Weights checked regularly by QC/Production Staff	Fresh/Frozen	Compliant

Recipe Information	
Ingredient	Supplier Information
Langoustine Tails	Macduff Approved Vessels
3% Phosphate solution	Fibrisol Service limited (Curaphos SP Phosphate E451) – Scottish Water (Water)

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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	Hard Shell, flesh moist. Good bite to flesh, firm meat

Test – Raw material	
SO2 Analysis – Performed In House and External at Eurofins Grimsby Laboratory	
SO2 - External	Sampled Weekly - <10mg/Kg

Nutritional Information	Composition per 100g
Nutritional Analysis – Performed at External at Eurofins Grimsby Laboratory – Tested May 2018	
KJ/kcal	172/41
Protein	9.7g
Carbohydrate	<1.0g
Of Which Sugars	<0.1g
Fat	0.2g
Of which saturates	0.1g
Fibre	<0.6g
Salt Equivalent	1.1g
Of which Sodium	0.44g

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

Test	Target	Unsatisfactory
Tests completed for all Intake lot codes		
TVC	<5.0 x 10 ⁴	>5.0 x 10 ⁵
Escherichia coli	< 10	>100
Staphylococcus aureus	< 50	>100
Salmonella	Not Detected	Present

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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	✓	Scallop by-catch handled on site – segregation in place.
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	X	✓	Sodium Metabisulphite used on site for Whole Langoustines
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

Gross Grade	Finished Piece Weight Range
10 – 20 p/lbs	24g – 36g
20 – 30 p/lbs	14g – 24g
30 – 45 p/lbs	10g – 14g
45 – 60 p/lbs	08g – 10g

Pack Formats

Units Per Box	Weight Per Unit	Master Weight
10	1Kg	10Kg
Glaze %	Weight (Net) per unit	Gross Weight per unit
40%	600g	10Kg

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	(10 x 1Kg) 64 Cases – 8 cases on a layer x 8 layers high
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 Off Langoustine Tails

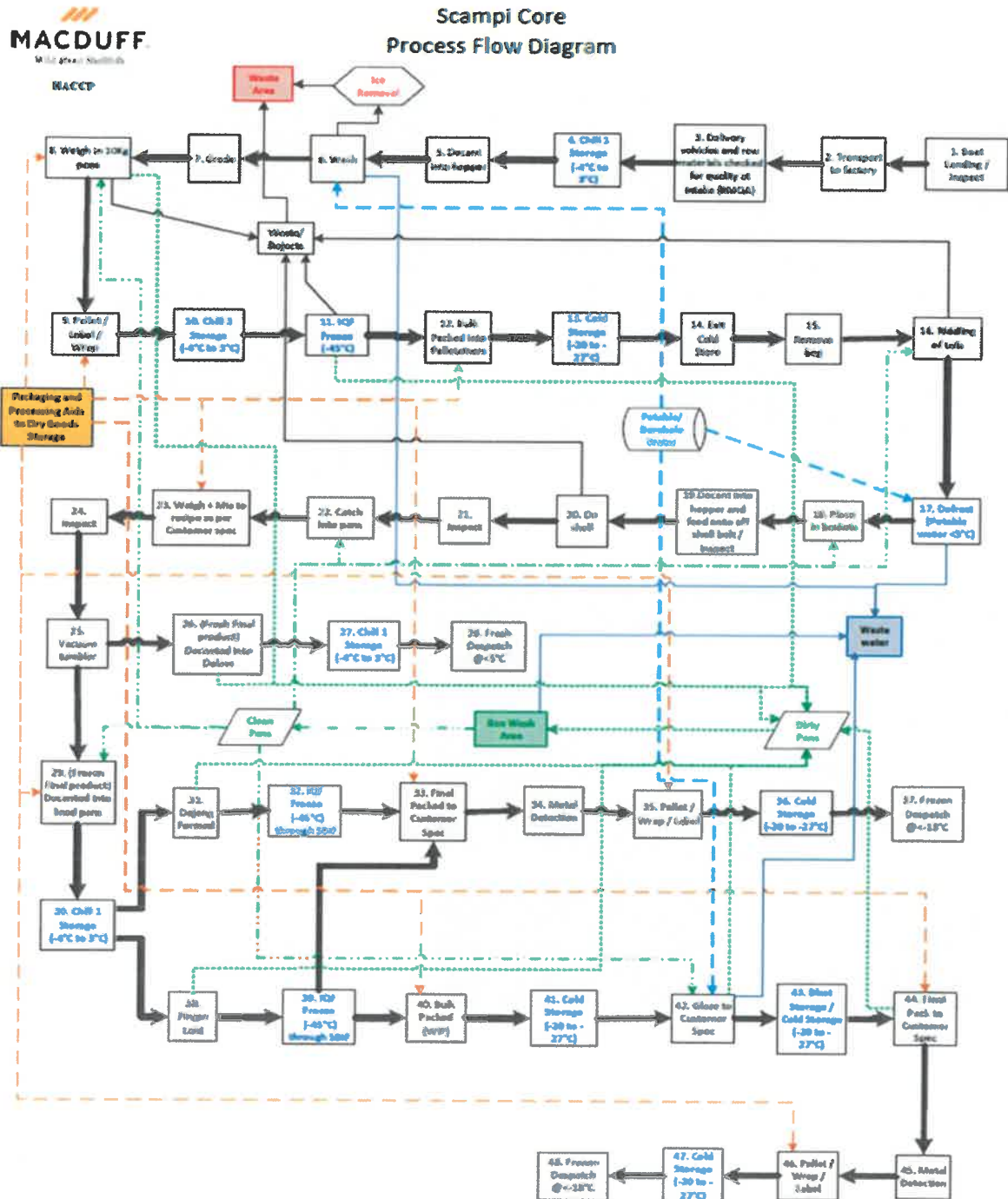
Veins-- visible – Outside of the flesh, as flesh cannot be broken to remove veins



Shell Off Tails



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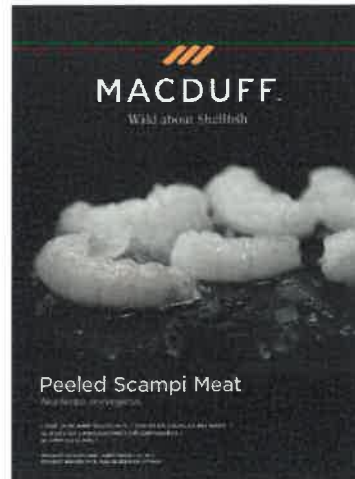
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Primary Packaging

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	19/03/2020

Approval

Name	Signature	Position	Date
Iona Cameron		Head Of Quality	20-03-2020
Duncan Watt		Head Of Operations	20.3.20
John Stott		Business Development Director	19/03/2020

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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