

TWO OCEANS
ABALONE

TWO OCEANS ABALONE Ltd.
3 Cantonment Street, Fremantle, Western Australia, 6160
Telephone: +61 (08) 6181 8888

FROZEN WHOLE IN SHELL GREENLIP ABALONE (WIS)

Manufacturer's Specification

COUNTRY OF ORIGIN

- Product of AUSTRALIA (Western Australia) – certified by Australian Government. Southern and Indian Oceans – State Fisheries WA, regulated harvesting areas off Augusta, Flinders Bay
- Factory Processing Address – Lease Area A, Lot 331 Leeuwin Road, Augusta Boat Harbour, Augusta WA 6290
- Registered Establishment Number 1390

BRAND AND CARTON

- All Frozen Whole in Shell Greenlip Abalone are packed under Two Oceans Brand
- Master Carton Dimensions: 560mm x 370mm x 110mm packed to 10kg
- Inner Carton Dimensions: 265mm x 110mm x 70mm packed to 1 kg
- Master Cartons and inner cartons are 100% recyclable

LABELLING

Cartons are labelled to comply with all Australian domestic and foreign import / regulatory requirements of importing countries at the time of export loading.

INGREDIENTS AND ALLERGENS

- Wild Caught Greenlip Abalone (*Haliotis laevis*)
- NO CHEMICALS ADDED
- Allergen: Contains Shellfish

RAW MATERIAL

- Greenlip Abalone (*Haliotis laevis*) is wild, received direct from ocean reefs and is a fully regulated fishery.
- All product is delivered live to the processing plant by Abalone divers direct from the ocean reefs to the processing facility within 10-minutes delivery time.
- Whole live abalone showing evidence of deterioration are to be discarded or disposed of.

SIZE GRADING, PIECE COUNTS AND QUALITY SPECIFICATION

- Sashimi Grade (Frozen from Live)
- Whole in Shell Abalone are graded individually to the following size ranges by piece count

106 grams – 156 grams	8 pieces per kilo (average weight 131 grams)
125 grams – 175 grams	7 pieces per kilo (average weight 150 grams)
150 grams – 200 grams	6 pieces per kilo (average weight 175 grams)
185 grams – 235 grams	5 pieces per kilo (average weight 210 grams)
235 grams – 285 grams	4 pieces per kilo (average weight 262 grams)
300 grams+	1 pc vac/pac (10kg per carton minimum weight)
- Whole in Shell Frozen Abalone are graded individually to the following size ranges for 10kg bulk box

70 grams – 100 grams
100 grams – 150 grams
150 grams – 200 grams
200 grams – 250 grams
300 grams+

FREEZING AND PACKING

- Abalone are frozen between -18°C and -21°C. Brine Freezer to reach a core temperature of -3°C within 10 minutes.
- Immersion time of 45 minutes to 50 minutes for abalone to reach a maximum core temperature of -14°C.
- Then, solids are washed off with fresh potable water then put into snap freezer for a further 60 minutes or until abalone core temperature reaches a minimum of -18°C before being removed.
- Abalone graded into net batch weight prior to glazing.
- Glaze with fresh potable water with temperature of water below 3°C. Potable water 3% glaze.
- Product returned to freezer immediately after glazing.
- Master cartons are packed to 10kg or 1kg fixed net weight according to size range and piece count.
- Products are packed as 100% net weight.

STORAGE

- All product to be held in secure premises for export food products until time of export loading.
- Product to be stored at -18°C or below.

PRODUCTION STANDARDS

- Production under Registered Establishment Number 1390
- Audited by the Australian Government, Department of Agriculture, Est Rating: A.
- Product is processed and packed under (HACCP) Hazard Analysis and Critical Control Point program and (GMP) Good Manufacturing Practice.

SHELF LIFE

- Two Oceans Brand Frozen Whole in Shell Greenlip Abalone are labelled with BEST BEFORE as 24 months from production date.
- Production dates and Best Before dates are labelled as: DD/MM/YYYY

Frozen Whole in Shell Greenlip Abalone (WIS)

RARE FOODS AUSTRALIA LIMITED | ABN: 52 148 155 042 | ASX: RFA
T: +61 8 6181 8888 | P: PO Box 86, Fremantle WA 6959 | A: Unit 302, 3 Cantonment St, Fremantle WA 6160 | info@rarefoods.com.au

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ORGANOLEPTIC STANDARD

Product should be succulent when thawed and have a firm texture. The odour should be fresh and consistent. Do not refreeze once defrosted.

MICRO-BIOLOGICAL

Heavy Metals

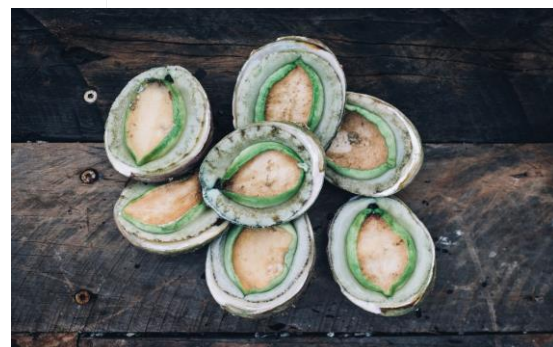
(Arsenic)	≤ 1 mg/kg residue
(Cadmium)	≤ 2 mg/kg residue
(Mercury)	≤ 0.5 mg/kg residue

Total Viable Aerobic Count	< 100 000 cfu/g
Coagulase Positive Staphylococci	< 100 cfu/g
Listeria	Not detected in 25g
Vibrio parahaemolyticus	<3 cfu/g
Presumptive E. coli	<3 cfu/g
Salmonella	Not detected in 25g

- TAIWAN: *Conforming with Taiwan FDA standards 2012*
- JAPAN: *Conforming with Japanese Microbiological Standards for Imported Seafoods*
- EU: *Conforming with EU standards for Food Imports 2012*

EXPORT INSPECTION

- Health Certificates are issued by the Australian Government as verification that Two Oceans Abalone Ltd. operates under an approved HACCP program in compliance with Federal regulations.
- All export shipments are certified that all product has been handled, processed, identified, stored and transported following HACCP Principles and have implemented Good Manufacturing Practice (GMP) in accordance with the laws of Australia.

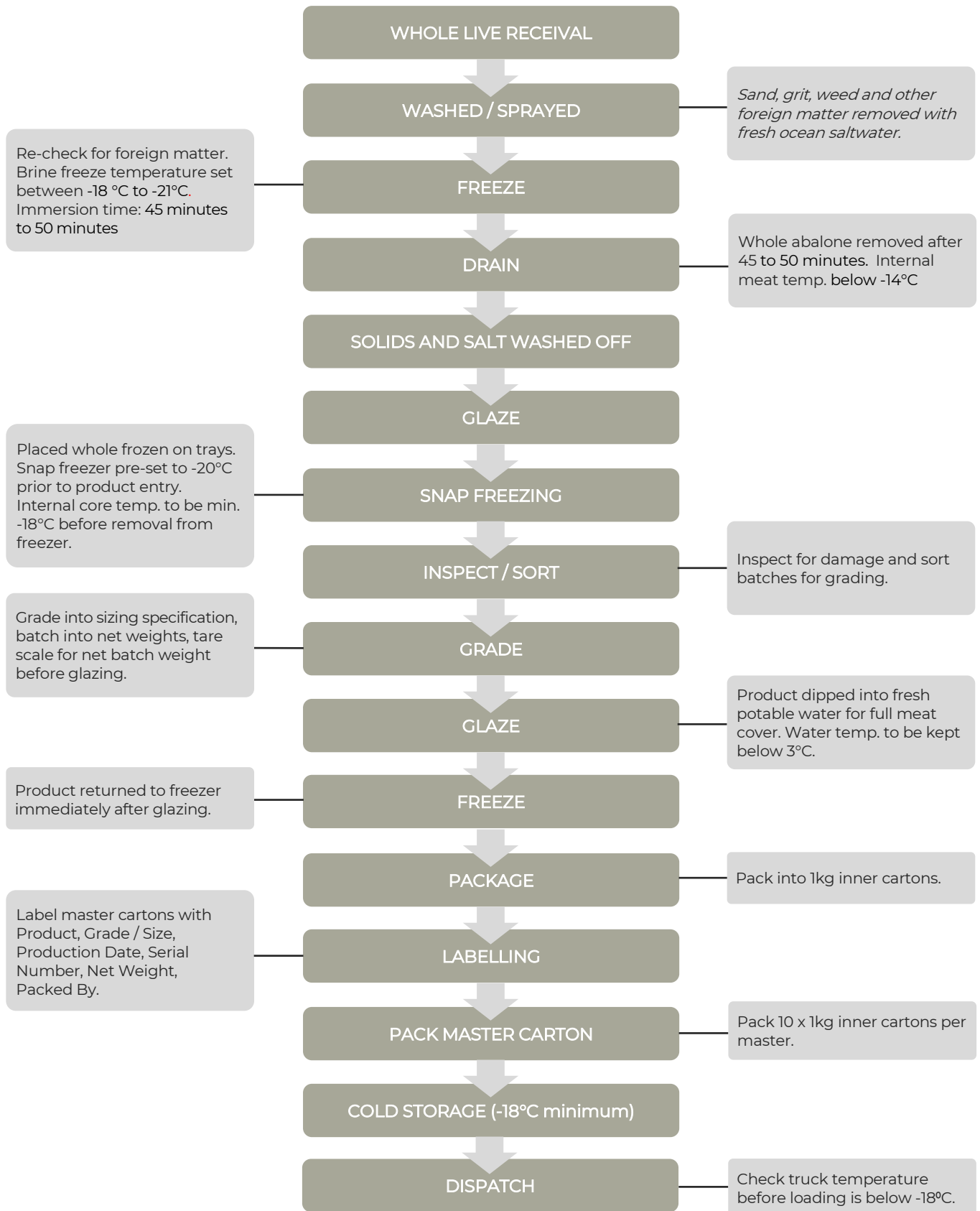


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**OPERATIONAL FLOWCHART –
FROZEN WHOLE IN SHELL GREENLIP ABALONE (TWO OCEANS)**



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