

Standard Management Rule 11: Crustaceans – shrimps and prawns

From the 1st July 2009 NZFSA replaced this SMR with a standardised format for all Imported Food Requirements.

For the current version refer to the Imported Food Requirement for crustaceans – shrimps and prawns.

Recent Updates:

Date	Location	Information
1 July 2009	All	Made obsolete refer to the Imported Food Requirement for crustaceans – shrimps and prawns.
15 September 2008	Section 2.1	Removal of Singapore Pathology Laboratory, Singapore General Hospital, for testing purposes.
20 July 2007	Section 3.4	Sampling and Inspection costs have been updated.
24 November 2005	Section 2.1	New certification option for products from the European Union.

Background Information:

SUMMARY OF HAZARD:

Shrimps and prawns are prescribed (high risk) foods because they have been linked to illnesses caused by *Salmonella*, *Listeria monocytogenes* and other pathogens. They can also contain excessive amounts of heavy metals – namely, cadmium, copper and selenium. Shrimps and prawns are sediment feeders so they reflect the condition of the sea floor.

This Standard Management Rule is for shrimps and prawns only, and includes:

- Raw frozen shrimps and prawns

- Cooked, chilled or frozen shrimps and prawns
- Prepared or preserved shrimp and prawn products, canned or otherwise.

GENERAL INFORMATION ON AGENCY ROLES:

The following descriptions have been included to clarify the roles of the New Zealand Food Safety Authority and Ministry of Agriculture and Forestry in imported food.

New Zealand Food Safety Authority (NZFSA):

NZFSA was established on 1 July 2002 as a semi-autonomous body attached to the Ministry of Agriculture and Forestry (MAF). The Authority has responsibility for the food functions previously managed by MAF and the Ministry of Health. Establishment of the NZFSA provides a more integrated approach to food safety in New Zealand. NZFSA is the controlling authority for imports of food and sets policies, criteria and procedures to monitor the safety of imported food for human consumption and for food containers (see www.nzfsa.govt.nz).

- **Auckland Central Clearing House (ACCH):**
ACCH is part of the Auckland Regional Public Health Service, and is contracted by the NZFSA to carry out day to day operational procedures. The ACCH provides the initial point of contact for information to importers and customs brokers throughout New Zealand. It facilitates the inspection and clearance services of identified imported products.
- **Public Health Units (PHU):**
Food and Health Protection Officers (Food/HPOs) employed by the various public health services are responsible for the inspection and sampling of high-risk imported foods under the coordination of the ACCH.

Biosecurity New Zealand:

Biosecurity NZ is the lead agency in New Zealand's biosecurity system. 'Biosecurity' is the protection of New Zealand's economy, environment and people's health from pests and diseases. It includes trying to prevent new pests and diseases arriving. Established in November 2004 (replacing MAF Biosecurity), it has been tasked with a 'whole of system' leadership role, encompassing economic, environmental, social and cultural outcomes. Importers should contact Biosecurity NZ directly to check their requirements <http://www.biosecurity.govt.nz/>.

Obsolete

Import Criteria Applying to Shrimps and Prawns

1.0 Products targeted:

Prescribed foods are targeted at the border using the New Zealand Customs tariff code system. Products classified with the following tariff codes are captured under this rule:

Tariff codes targeted for shrimps and prawns	
<i>0306 Crustaceans, whether in shell or not, live, fresh, chilled, frozen, dried, salted or in brine; crustaceans, in shell, cooked by steaming or by boiling in water, whether or not chilled, frozen, dried, salted or in brine; flours, meals and pellets of crustaceans, fit for human consumption</i>	
0306.13.00.00G	Shrimps And Prawns Frozen
0306.23.02.00C	Shrimps And Prawns Not Frozen Whole Cooked
0306.23.08.09E	Shrimps And Prawns Not Frozen Other
<i>1605 Crustaceans, molluscs and other aquatic invertebrates, prepared or preserved</i>	
1605.20.01.00K	Shrimp & Prawn Paste
1605.20.09.01J	Shrimp & Prawn Pate
1605.20.09.09D	Other Preparations Of Shrimps & Prawns
1605.20.19.01D	Other Preparations Other Of Shrimps & Prawns In Cans Or Jars
1605.20.19.09K	Other Preparations Other Of Shrimps & Prawns Otherwise Packed

INCLUDES:

Dried shrimps and shrimp pastes are included under this Rule.

EXCLUDES:

Product with less than a total 10% shrimp and/or prawn content is not included in this Rule.

INADVERTENT CAPTURES:

As the tariff classification system is not designed specifically around the imported food regime, some food products may be inadvertently captured by the targeted tariff codes above. If this is the case, products will not be subject to the sampling and testing protocol outlined in this rule.

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2.0 Clearance options:

The following 3 options are available to clear consignments captured under this rule:

2.1 Acceptance of recognised certification:

Where the NZFSA (or Ministry of Health prior to July 2002) has negotiated certification arrangements with other governments or specific manufacturers then approved certification may be accepted for a prescribed food. Importers should check specific certification requirements with their local PHU prior to importing a prescribed product.

For shrimps and prawns approved certification may be accepted from:

- Australia - Department of Agriculture Fisheries and Forestry - Certificate of Origin
- Australian Quarantine Inspection Service (AQIS)
- Canadian Food Inspection Agency
- Malaysia - Ministry of Health
- Thailand Department of Fisheries
- Thailand Centre of Export Inspection and Certification for Agricultural Products (CEICAP)
- EU - Animal and Public Health Certificate: New Zealand has a Veterinary Agreement with the European Union (EU) to facilitate trade of live animal and animal products. The standard verification testing rate outlined below does not apply in this case; a reduced level of sampling/testing of 2% applies. Importers must obtain an MRP in order for this reduced rate to be implemented. Refer to <http://www.nzfsa.govt.nz/imported-food/eu-nz-vet/index.htm> for more information.

NOTE: USA products will not be accompanied by any certification and are to be monitored at the rate of 1 in every 10 shipments as they are covered by a Mutual Recognition Arrangement between New Zealand and USA.

In all cases certification is required with **each consignment**.

Consignments imported under certification are required to be tested at intervals. The standard testing rate used to verify certification which applies to most prescribed foods is 1 in every 20 where consignments are more frequent than 20 in a six month period. Where consignments are less than 20 in a six month period, they are tested every six months.

2.2 Multiple Release Permits (MRPs):

MRPs are issued on a case by case basis to importers with the technical skill and experience to manage a quality imports system. They are specific to importer, broker, product and supplier and are issued for a defined time period. MRPs enable importers to bypass the normal import clearance procedure for prescribed foods saving time and clearance costs. Where testing is required, the sampling and testing protocol applied is specified below, unless a different protocol is a specific condition of the MRP.

MRPs are issued for imported food products that are:

- Inadvertently captured by the tariff codes monitored by the NZFSA
- From particular suppliers under an arrangement agreed to by the importer and NZFSA. This includes the importer maintaining an agreed imported food surveillance programme for the products covered by the MRP.

No MRPs have been issued to importers of shrimps and prawns to date. Importers wishing to apply for a MRP for this product should contact the NZFSA to discuss their situation prior to completing a MRP application form.

2.3 Clearance sampling and testing on arrival in New Zealand:

In the absence of approved certification or a MRP, shrimps and prawns are sampled and tested in New Zealand according to the sampling and testing protocol in the table below.

Obsoleto

3.0 Sampling and testing protocol:

3.1 Microbiological and chemical criteria:

In order to ascertain if a consignment is safe the consignment is inspected and samples taken for laboratory testing. The following criteria are used when deciding if a consignment captured by this rule is safe to be released:

COOKED, READY TO EAT PRODUCTS (EXCLUDING PRODUCT IN CANS OR JARS):

- Nil tolerance for *Listeria monocytogenes* per 25g
- Nil tolerance for *Salmonella* per 25g
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RAW PRODUCTS REGARDLESS OF PACKAGING (RECEIVE MINIMAL COOKING):

- Nil tolerance for *Salmonella* per 25g
- Aerobic plate count per gram at 35°C where:
 - n = 5
 - c = 2
 - m = 500,000 (5×10^5)
 - M = 5,000,000 (5×10^6)
-

ALL PRODUCTS INCLUDING CANNED:

- Heavy metal contamination that does not exceed permitted levels (cadmium max. 1.0ppm, copper max. 30ppm and selenium max. 2ppm). Heavy metal contamination (cadmium, copper, selenium) is to be monitored and recorded. Release of consignments is on a case by case basis.

3.2 Sampling requirements:

3.2.1 When to sample consignments:

ACCH identifies which consignments are to be sampled and tested. Sampling frequencies depend on whether certification is used as a clearance option:

In the absence of certification:

The frequency of sampling is based on the sampling and testing history developed by each importer for a specific product. A “specific product” means a product that is exactly the same i.e. the same size bottle/packet, variety, brand, and is manufactured by the same company. As a

compliant history is developed, the frequency of sampling and inspection is reduced for the importer for that specific product. This reduction is governed by the “switching rule”, which follows the steps below:

- Sampling initially starts out at the *tightened* level (where 100% or every consignment is sampled and tested) until 5 compliant consignments have been cleared, when:
- Sampling is then lowered to the *normal* level (where 20% or 1 consignment in 5 is sampled and tested), until another 20 compliant consignments have been cleared (or 100 consignments imported since day 1), when:
- Sampling is then lowered to the *reduced* level (where 10% or one consignment in 10 is sampled and tested).

The frequency of sampling returns back to the *tightened* when a product is tested and found not to comply.

ACCH selects the frequency of sampling that is to apply to an imported product at any particular time using the *Switching Rule*. However, application of the *Switching Rule* may also be affected by the difficulty of managing the hazards applying to particular food product. Importers can contact their local PHU to discuss application of switching rules and, where they have a compliant history that meets the requirements above, can request a reduction in testing. Importers can also present a case if they wish to deviate from the switching rule applied. This is considered by the NZFSA on a case by case basis. Special approval may be given for specific products to be advanced to a further reduced level of testing (1 consignment in 20).

Certification:

Where testing is required to verify certification the sampling frequency does not follow the Switching Rule but is 1 in 20 consignments – see point 1 in ‘Clearance Options’.

MRPs:

Where sampling is a requirement of a MRP, the MRP will specify the sampling frequency.

3.2.2 Who samples consignments:

Sampling must be carried out by PHUs, who will arrange for one of their Food/HPOs to inspect and sample any consignment identified as requiring testing.

3.2.3 Products to be sampled:

Samples should be taken for each type of product. For example – size, species, how prepared, packaging, etc.

3.2.4 Number of lots to be sampled per consignment:

Food/HPOs select the lot(s) to be inspected and sampled. Where a consignment contains more than one lot, the number of lots to be sampled is calculated using the table below. This table is standard for all prescribed foods.

Number of lot codes in consignment	Number of lots to sample	Reject lots if n samples fail
1	1	$n = 1$
2 -8	2	$n = 1$
9 -15	3	$n = 1$
16 – 25	5	$n = 1$
> 26	8	$n = 1$

3.2.5 Number of samples to take per lot:

Each product has its own sample requirements. For shrimps and prawns the number of samples to take per lot should be calculated using the information below.

- 5 samples per lot for microbiological analysis
- 3 samples per shipment of “sea catch” for heavy metal analysis (sample largest size)
- 3 samples per shipment of “farmed” for heavy metal analysis (sample largest size) as identified by the importer

Samples from within the same lot shall be identified by the same sampling officer sample number, with each of these samples being identified by a letter (A - Z) e.g. where an officer has the sample number 751, the first sample from within the same lot will be identified as 751A, the second 751B, and so on.

3.2.6 Sample weight

- 100g per microbiological sample
- 100g per heavy metal sample
- Individual units or packets should be sampled if these are available.

3.3 Testing requirements:

3.3.1 NZFSA approved laboratories:

Samples of imported food can only be tested by laboratories approved by the NZFSA. At present only laboratories that are accredited by International Accreditation New Zealand (IANZ) to do the relevant test are approved by the NZFSA. NZFSA is currently updating its list of approved laboratories.

3.3.2 Methodology to be applied by laboratories:

MICROBIOLOGICAL ANALYSIS

- The preferred methods of microbiological analysis are described in the *Compendium of Methods for the Microbiological Examination of Foods*, American Public Health Association, and most up-to-date version. A minimum of 25g of each sample must be analysed.

HEAVY METAL ANALYSIS

- The preferred method of heavy metal analysis is described in the Official Methods of Analysis of AOAC International 16th Edition, 1995.

3.3.3 Compositing samples:

MICROBIOLOGICAL ANALYSIS

- For *Salmonella* and *Listeria*: a maximum of 5 samples (of approximately equal weight) may be composited per lot.
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HEAVY METAL ANALYSIS

- Like samples (of approximately equal weight) may be composited.
- Separate composite results are to be provided for "sea catch" and "farmed" shipments.
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AEROBIC PLATE COUNT

- Samples must NOT be composited.

3.4 Sampling and testing costs:

All sampling and testing is at the importers expense. Permit and sampling costs are listed below, are in New Zealand dollars and include GST:

- Permit application assessment : \$48 per line assessment + \$96/hour
- Sampling and inspection: \$96 per hour payable in 15-minute units

For laboratory costs, contact NZFSA approved laboratories.

3.5 Reject Criteria:

PHUs will apply the following criteria to lots after inspection and sampling:

REJECT lots that test positive for *Listeria monocytogenes*

REJECT lots that test positive for *Salmonella*

REJECT lots where the aerobic plate count per g at 35°C fails to comply with:

n = 5

c = 2

m = 500,000 (5×10^5)

M = 5,000,000 (5×10^6)

FORWARD the results of heavy metal (cadmium, copper and selenium) testing to the Sampling Officers to record against the suppliers. Sampling Officers to contact Imported Food Group, NZFSA. Release of consignments will be on a case by case basis.

INTERPRETATIONS

Some of the criteria are expressed in the format prepared by the International Commission on Microbiological Specifications for Food (ICMSF).

n The number of sample units which must be examined from a lot of food to satisfy the requirements of a particular sampling plan

c The maximum allowable number of defective sample units. When more than this number is found, the lot is rejected by the sampling plan.

m Represents an acceptable level and values above it are marginally acceptable or unacceptable in the terms of the sampling plan.

M A microbiological criterion which separates marginally acceptable quality from defective quality. Values above “M” are acceptable in terms of the sampling plan and detection of **one or more** samples exceeding this level would be cause for rejection of the lot.

- When lots fail the import criteria, those lots and any untested lots in the same consignment are rejected.
- Lots that fail the import criteria are not re-tested.
- Importers have the option of having any untested lots sampled and tested, and if any of these lots pass they can be cleared. Any untested lots in the same consignment of a reject lot must

be sampled for clearance at the rate detailed in *Inspection Requirements and Testing Requirements* above.

3.6 Special conditions that may apply:

In unique or out of the ordinary situations, the NZFSA reserves the right to either stop trade or replace the above sampling regime with a special elevated programme of testing in order to regain confidence in a product.

Obsolete