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**Traceability of molluscan products —  
Specifications on the information  
to be recorded in farmed molluscan  
distribution chains**

*Traçabilité des mollusques — Spécifications des informations à  
enregistrer dans les chaînes de distribution de mollusques en ferme*





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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 234, *Fisheries and aquaculture*.

## Introduction

There are increasing demands for detailed information on the nature and origin of food products. Traceability is becoming a legal and commercial necessity.

The ISO definition of traceability concerns the ability to trace the history, application, and location of that which is under consideration and for products, this can include the origin of food materials and non-food parts; thereof, the processing history and the distribution and location of the product after delivery. Traceability includes not only the principal requirement to be able to physically trace products through the distribution chain from origin to destination and vice versa, but also to be able to provide information on what they are made of and what has happened to them. These further aspects of traceability are important in relation to food safety, quality, and labelling.

The scheme specified in this International Standard does not demand perfect traceability, i.e. that a particular retail product should be traceable back to a hatchery and or farm and batch of origin. Pragmatically, it is recognized that mixing of animals or materials is often commercially necessary at a number of stages in the distribution chains, e.g. in grading at first sale prior to sale and in the processing of raw materials into products. As a result, there will be occasions where whole chain traceability of materials and products is neither possible nor commercially practical. These limitations are to be recognized and taken into consideration when auditing against this International Standard and are not to preclude compliance so as to disadvantage, otherwise compliant operators. Where such mixing necessarily occurs, the food business shall generate a trade unit or units only from the point that identification of units is possible. The requirement for traceability is that the business records the IDs of created or received trade units that can be input into each subsequently created unit, thereafter and vice versa. The particular product or products are then traceable through the supply chain (as far as is practical) to generate information on the maximum number of stages of the chain as possible.

Given the variety of molluscan products and of their distribution chains that operate within and between different countries and varying legal requirements, the information specifications cannot itemise all the information that may possibly be required in every situation. This International Standard provides a generic basis for traceability. Flexibility is allowed for businesses to record further information in their own non-standardised files, but keyed to the same unit IDs.

The information remains in the ownership of the food business that generated it, but is available when required by law for the purposes of traceability (in the event of a food safety problem) or by commercial agreement between businesses. The structure, names, and content of the information is standardised so that it can be readily communicated from business to business through the distribution chains ensuring common understanding of terms and meanings.

Commercial arrangements for businesses to communicate information through the distribution chains are to be encouraged, particularly for the information desired by the trade to be visible at the various transaction points in the chains, but that is not the subject of this International Standard.

Though this International Standard is designed with electronic representation and communication of data in mind, the specifications can be met by paper systems.



# Traceability of molluscan products — Specifications on the information to be recorded in farmed molluscan distribution chains

## 1 Scope

This International Standard specifies the information to be recorded in farmed molluscs supply chains (excluding cephalopods) in order to establish the traceability of products originating from farm-raised molluscs. It specifies how molluscan products traded are to be identified and the information to be generated and held on those products by each of the food businesses that physically trade them through the distribution chains. It is specific to the distribution for human consumption of molluscs and their products from farm through to retailers or caterers.

The types of businesses identified in this International Standard for farmed molluscan distribution chains are the following:

- farming;
  - a) broodstock suppliers/natural seed collectors;
  - b) hatcheries and nurseries;
  - c) molluscan farm;
  - d) harvesting;
- depuration and shucking etc.;
- processors;
- transporters and store operators;
- traders and wholesalers;
- retailers and caterers;
- logistics including materials brought from other domains;
- feed production.

Any given molluscan distribution chain can be made up of some or all of the above components, but not necessarily in the sequence listed.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1  
traceability**

ability to trace the history, application, or location of that which is under consideration

Note 1 to entry: When considering product, traceability can relate to:

- the origin of materials and parts,
- the processing history, and
- the distribution and location of the product after delivery.

[SOURCE: ISO 9000:2005, 3.5.4, modified]

**3.2  
unique logistic unit identifier  
ULUI**

any composition established for transport and/or storage that needs to be identified and managed through the supply chain

**3.3  
unique trade unit identifier  
UTUI**

smallest unit which is guaranteed to retain its integrity as it moves from one link of the chain to the next

Note 1 to entry: It is the smallest unit that is kept whole and undivided with no change in content or label/identification.

**3.4  
molluscan**

invertebrate animal belonging to the phylum Mollusca

Note 1 to entry: A molluscan has a soft unsegmented body and is covered by a calcium carbonate shell of one to eight parts or sections. In some species, the shell is lacking or reduced. Major cultured molluscs are mussels, oysters, scallops, cockles, clams (bivalves), and abalone (gastropod).

**3.5  
molluscan products**

products prepared out of molluscs or parts thereof

**3.6  
relaying**

removal of bivalve molluscs from a microbiologically contaminated growing area to an acceptable growing or holding area under the supervision of the agency having jurisdiction and holding them there for the time necessary for the reduction of contamination to an acceptable level for human consumption

**3.7  
depuration**

reduction of microorganisms to a level acceptable for direct consumption by the process of holding live bivalve molluscs for a period of time under approved controlled conditions in natural or artificial seawater suitable for the process which may be treated or untreated

**3.8  
heat shocking**

process of subjecting bivalve molluscs in the shell to any form of heat treatment such as steam, hot water, or dry heat for a short period to facilitate rapid removal of meat from the shell for the purpose of *shucking* (3.9)

**3.9  
shucking**

process of removing the meat from the shell



## 4 Abbreviations

In this International Standard, the following abbreviations apply:

ACC	Aquaculture Certification Council
CAC	Codex Alimentarius Commission
EPC	Electronic Product Code, a unique number provided by GS1 used to identify instances of trade items (individual trade units) particularly suited for representation in an RFID chip
FAO	The Food and Agriculture Organization of the United Nations
FBO	Food Business Operator, generic term for someone in the supply chain who processes, sends or receives relevant trade units or logistic units
GAqP	Good Aquaculture Practices
GLN	Global Location Number, a 13-digit globally unique number provided by GS1 used to identify parties and physical locations
GMP	Good Manufacturing Practice
GS1	Global non-profit organization dedicated to the design and implementation of global standards and solutions to improve the efficiency and visibility of supply and demand chains globally and across sectors; previously EAN/UCC
GTIN	Global Trade Item Number, an 8- to 14-digit globally unique number provided by GS1 used to identify types of trade items (product types)
HACCP	Hazard Analysis Critical Control Points
HS	Harmonized Commodity Description and Coding System
LU	Logistic Unit
OIE	World Organization for Animal Health
RFID	Radio-Frequency Identification, the use of an object (typically referred to as an RFID tag) applied to or incorporated into a product for the purpose of identification and tracking using radio waves
RFMO	Regional Fisheries Management Organization
SGTIN	Serialized Global Trade Item Number, a unique number provided by GS1 used to identify instances of trade items (individual trade units) by extending the GTIN
SSCC	Serial Shipping Container Code, an 18-digit globally unique number provided by GS1 used to identify logistics units
TU	Trade Unit
UI	Unique Identifier
ULUI	Unique Logistic Unit Identifier
UTUI	Unique Trade Unit Identifier

## 5 Principle

The fundamental principle of chain traceability is that trade units (TU) shall be identified by unique codes (UI). This code may be globally unique in itself (for instance, the GS1 SGTIN or EPC numbers) or it could be unique in that particular scope only which means that it should be no other TUs in that part of the chain that can have the same number. If the scope (the product type, the company, the chain, the sector, the country, or similar) is assigned a globally unique number, the combination of the globally unique scope number and the locally unique TU number shall constitute a globally unique identifier for the TU.

NOTE 1 The UTUI term is introduced to indicate a TU identifier which is or can be made globally unique.

Trade units (TUs) can be grouped together to make logistic units (LUs) or LUs can be grouped together to make higher level LUs. A fundamental principle of chain traceability is that logistic units shall be identified by a unique code. This code shall be a national code which can be globally unique in itself (similar to the GS1 SSCC code) or it could be unique in that particular scope only, which means that there should be no other LUs in that part of the chain that may have the same number. If the scope (the product type, the company, the chain, the sector, the country) is assigned a globally unique number, the combination of the globally unique scope number and the locally unique LU number shall constitute a globally unique identifier for the LU.

NOTE 2 The ULUI term is introduced to indicate a LU identifier which is or can be made globally unique.

The key to the operation of this traceability scheme is the labelling of each unit of goods traded, whether of raw materials or finished products, with a unique ID. This shall be done by the food business that creates each unit. Businesses that transform units such as processors who convert the units of raw materials received into the products dispatched shall create new units and shall give them new IDs.

As indicated above, the simplest way of implementing UTUIs and ULUIs is to use the GS1 SGTIN/EPC and SSCC codes. This practice is recommended, but is not mandatory. The central principle behind this International Standard is that businesses which create TUs or LUs should assign unique numbers to them.

Each of the food businesses that create or physically trade in those units throughout the distribution chains from catcher through to retailer or caterer shall generate and hold the information necessary for traceability. The information is to be held on paper or electronically, keyed to the unit IDs.

## 6 Requirements

### 6.1 Identification of the units traded

Businesses that bring in supplies of farmed molluscan products from outside of the domain of the specifications and trade them onwards shall identify each unit traded and record associated information elements as indicated in [Table 3](#) to [Table 12](#).

### 6.2 Recording of information

To distinguish between the different categories of information, all information elements are classified as either “shall”, “should”, or “may” with definition (see [Table 1](#)).

**Table 1 — Classification of informative elements**

	Definition	Explanation
“shall”	This category contains recordings related to identifiers and transformations that is necessary in order to trace the history, application, or location of an entity. This means the unique identity of trade and logistic units, as well as the dependencies between the identifiers of inputs and outputs in a process.	“shall” elements are data elements that are deemed necessary to record to ensure that traceability is possible. Data elements relating to product properties are not in this category even if these properties are essential for other purposes like product documentation or food safety.
“should”	This category contains parameters that describe and provide supporting information on the units being traced. Common parameters required by law, commercial requirements, or good manufacturing practises are recorded, but only where an established international format or data list for the value exists.	This includes parameters like “species”, “production date”, etc. If certification according to this International Standard is to happen in the future, the “should” parameters are to be considered.
“may”	This category contains parameters that describe and provide supporting information on the units being traced. It contains parameters that are not part of the “should” category, but that may still be useful or relevant to record. It also contains parameters that may be deemed important, but where no established international format or data list exists.	The “may” category is informative only and it is included to enable use and uptake of the standard. If certification according to this International Standard is to happen in the future, the recording of “may” parameters are not to be considered when evaluating adherence. The list of “may” elements is not definitive or exclusive. It is by design extendible and the threshold for including new elements in this category is low.

Businesses that physically trade in molluscan products shall generate and hold the required information appropriate to the type of business for each of the units traded. The detailed information requirements are tabulated in [Table 2](#).

**Table 2 — Information requirements to be recorded by the different businesses**

Food business operator (FBO) type	Table	Data prefix <sup>a</sup>	Receive	Transform	Create/produce	Dispatch
Brood stock suppliers/natural seed collectors	3	MBR	-	-	TU/LU	TU/LU
Hatcheries/nurseries	4	MHA	TU/LU	Yes	TU/LU	TU/LU
Molluscan farms	5	MFF	TU/LU	Yes	TU/LU	TU/LU
Processors	6	MPR	TU/LU	Yes	TU/LU	TU/LU
Live molluscan transporters	7.1	MTR	TU/LU	Yes	TU/LU	TU/LU
Transporters and cold store operators for molluscs other than live	7.2	MTS	TU/LU	No	LU	TU/LU
Traders and wholesalers	8	MTW	TU/LU	No	TU/LU	TU/LU
Retailers and caterers	9	MRC	TU/LU	Yes	TU/LU	—
Bringing in materials from outside the domain	10	MOT	TU/LU	—	TU/LU	TU/LU
Feed production	11	MFE	TU/LU	Yes	TU/LU	TU/LU

<sup>a</sup> For the purpose of unique identification to establish an extendable framework for data element identification, each table has been identified with a three letter alphanumeric code. This code plus three digits is used to give a unique number to each data element.

The information specifications separately tabulate the information to be recorded by each of these types of business. Some businesses may carry out the functions of more than one of the types listed,

for example, distribution businesses can act as wholesalers and as transporters in which case those businesses shall record the relevant information requirements for each of the functions carried out.

NOTE 1 This International Standard is limited in scope to the distribution for human consumption of molluscs and their products. The molluscs information specifications are substantially the same from processing onward.

Pragmatically, it is recognized that some supplies of molluscan products and supplies of ingredients, etc. will come from outside of the domain and may lack the required IDs and information records. To accommodate this, a business that brings in molluscs and materials from outside of the domain is required to generate and hold the key information necessary for the traceability of the units brought in and if they are to be traded on to label those units with the required IDs.

NOTE 2 These specifications are designed with electronic representation and communication of data in mind, but this is not a requirement when using the International Standard. The specifications can also be met by paper systems.

Note that the specification is for data to be generated, recorded, and stored at the respective link. For all links, except “Breeders”, relevant data shall be generated in a previous link in the supply chain and passed along with the trade unit/logistic unit.

NOTE 3 In these tabulations, there is no repetition of the information originally recorded to describe the units created and their history, although businesses receiving those units later in the distribution chain will often need some of that information. The information is keyed to the unit IDs and can be supplied by commercial agreement between the businesses without having to re-input the data.

### 6.3 Controlled relaying and depuration

Bivalve molluscs concentrate contaminants from the water column in which they grow. These contaminants may then cause illness to humans when the bivalves are eaten. Depuration is effective in removing many faecal contaminants from shellfish. Depuration means the reduction of microorganisms and other contaminants to a level acceptable for direct consumption by the process of holding live bivalve molluscs for a period of time under approved controlled conditions in natural or artificial sea water suitable for the process which may be treated or untreated. Relay systems (natural or in containers) and land-based depuration establishments are efficient methods of achieving microbiologically safe bivalve molluscs that are harvested from approved areas. Each registered facility that depurates or relays molluscs should follow their quality management program and appropriate documentation should be maintained for the process. The details of traceability of depuration process are shown in [Table 5](#).

### 6.4 Broodstock supplier and natural seed collectors/suppliers

For the purposes of this International Standard, broodstock suppliers are considered to be establishments/self help groups/farmer groups/fisherman that produce/collect broodstocks that are supplied to hatcheries for further maturation and production of spat. They may carry out basic operations like collection and maintenance of broodstock under good management practices in a sustainable way.

Prior to dispatch, broodstock suppliers can carry out their own operations or get it done through approved agencies/laboratories for absence of OIE-listed diseases, quality, grading, etc.

The trade units created by broodstock suppliers can range from a few hundred to several thousand passed into the hands of the next food business, i.e. hatcheries.

For the purposes of this International Standard, natural seed collectors/suppliers are considered to be establishments that produce/collect seeds from natural sources that are supplied to farms for further maturation. They may carry out basic operations like collection and maintenance of natural seed in a responsible way to ensure sustainability.

Table 3 — Detailed information for broodstock suppliers and natural seed collectors/suppliers

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>BROODSTOCK SUPPLIERS AND NATURAL SEED COLLECTORS/SUPPLIERS</b>						
MBR101	Food business ID	Unique national identification number for the unit plus country prefix or name and address of the group/business that operates maintenance of broodstock (either indigenous or exploited)	Name, reg. no., and country prefix	x		
MBR102	Broodstock supplier establishment ID	Unique national identification number for the group/unit/organization plus country prefix or name and address of the broodstock supplier	Women self-help group, Padanna, Kasargod, Kerala (bivalve spat suppliers)	x		
MBR103	Broodstock supplier GAqP certification	Any quality certification available	Norms suggested by National Competent Authority and aligned to codex GAqP			x
MBR104	Natural seed collector	Unique national identification number for the group/unit	Mahesh, Moothakunnam. N.paravur	x		
MBR105	Location	Specific location	Njarakkal, Vypin, Kerala, India	x		
MBR106	Area of relaying	RFMO or more specific location	Vypin	x		
MBR150-	(unassigned)	Further information elements that describe the breeder, linked to broodstock supplier ID	Certified wild broodstock bank			x
<b>FOR EACH TRADE UNIT CREATED</b>						
<b>Identity</b>						
MBR201	Unit ID	UTUI	ID can be created for a batch with national prefix depending up on the area and time of collection	x		
<b>Description</b>						
MBR202	Species	LAT- followed by Latin name or FAO- followed by FAO 3alpha code or TSN- followed by taxonomic serial number (may be repeated if several species)	LAT- <i>Perna viridis</i> FAO:MSV TSN:3161003202		x	
MBR203	Area/ country of origin	FAO area/RFMO area of the broodstock if captured from wild or country of origin for broodstock from farmed stock or more specific location	51	x		
In case of broodstock collectors from wild, this requirement will be scored in the may column.						

Table 3 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
MBR204	Health quality checks	Type of checks and measured results physical and microbiological or clinical signs	OIE-listed pathogens eg. <i>Perkinsus marinus</i> (bivalve) oyster velar disease			x
MBR205	GMO	Use of GMO in production or in feeding of broodstock Yes/No	No			x
<b>Production history</b>						
MBR206	Farm unit ID	ID no. of broodstock producer	M/S XYZ hatchery followed by unique national identification number	x		
MBR207	Broodstock maintenance record	Record showing water temperature, salinity, prophylaxis, water flow, and other water quality parameters of broodstock maintenance to be kept by broodstock supplier	Temperature 22 °C, salinity 28 ppt, water quality for aquaculture as per IS, ECO - PRO, OXY -MORE, Detrodigest			x
MBR208	Feeding record	Live feed as per growth requirement	Telenet, 12 pollock street, Cacus, W.Bengal, India			x
<b>Additional data</b>						
MBR250-	(unassigned)	Further information elements that describe the created trade unit, linked to UTUI				x
		FOR EACH LOGISTIC UNIT CREATED				
<b>Identities</b>						
MBR301	Unit ID	ULUI	Unique national identification number or GSI number for the logistic unit	x		
MBR302	Trade unit IDs	The IDs of the trade units within the logistic unit	Unique national identification number or GSI number for the trade unit	x		
<b>Additional data</b>						
MBR350-	(unassigned)	Further information elements that describe the created logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>						
Identity						
MBR401	Unit ID	ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)		x		
In case of broodstock collectors from wild, this requirement will be scored in the may column.						

Table 3 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Destination</b>						
MBR402	Next food business ID	Unique national identification number for the hatchery plus country prefix and address	Unique national identification number/GS1 and CMFRI, edible oyster hatchery, Narakkal, Cochin, Kerala	x		
MBR403	Date and time of dispatch	Date and time of transfer to next food business, ISO 8601 format	2010-09-25T12:15		x	
<b>Additional data</b>						
MBR450-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit linked to UTUI/ULUI				x
In case of broodstock collectors from wild, this requirement will be scored in the may column.						

## 6.5 Hatcheries/nurseries

For the purposes of this International Standard, hatcheries/nurseries are considered to be businesses that receive broodstock, maintain them, induce spawning, and produce spat and dispatch to other hatcheries/molluscan farms for further rearing.

The hatcheries/nurseries may change the nature of molluscan products by carrying out operations such as feeding, grading, treatments, etc. Hatcheries/nurseries create new trade units that can range from a few thousands to several million spat passed into the hands of the next food business.

Table 4 — Detailed information for hatcheries including nurseries

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>HATCHERY/NURSERY</b>						
MHA101	Hatchery/nursery establishment ID	Unique national identification number for the hatchery plus country prefix or name and address of the food business that operates hatchery establishment	Unique national identification number/GS1 and National Competent Authority, edible oyster hatchery, Narakkal, Cochin, Kerala	x		
MHA102	Hatchery/Nursery GAqP	Name(s) of quality or food safety GAqP schemes by which hatchery is certified	Certification by National Competent Authority FAO GAqP Hatchery HACCP			x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MHA201	Unit ID	ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)	40065300555555568	x		
MHA202	Trade unit IDs	If received as a logistic unit, the IDs of the trade units within the logistic unit	40065300555555570 40065300555555571 40065300555555572	x		
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 4 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Source</b>						
MHA203	Previous food business ID	Unique national identification number for the broodstock supplier plus country prefix or name and address of the food business that operates breeding company or transporter	40065300555555571 M/S XYZ, edible oyster hatchery, Cochin, Kerala	x		
MHA204	Date and time of reception	ISO 8601 format/movement records	2010-11-23T0.10:10		x	
<b>Control checks (either on logistic or separate trade units)</b>						
MHA205	Temperature check	Temperature (°C) in UTUI or ULUI received	24 °C		x	
MHA206	Survival record	Mortality of broodstock, spat in %	20 %, etc.			x
MHA207	Quality control checks	Type of checks and measured results or indication if records are available in electronic form, on paper, or not available	Test results for OIE listed diseases/paper			x
<b>Transformation information</b>						
MHA208	Related created trade unit IDs	List of IDs of created trade units that may incorporate part of this	Unique national ID/GS1 number	x		
MHA209	Fractions	Fraction of received trade unit that go into each created unit	UTUI-1 33 %, UTUI-2 33 %, UTUI-3 33 %, etc.		x	
<b>Additional data</b>						
MHA250-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH NEW TRADE UNIT CREATED</b>						
<b>Identity</b>						
MHA301	Unit ID	ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)	Unique national ID/GS1 number	x		
<b>Description</b>						
MHA302	Hatching date	Date of hatching	Date of hatching in ISO 8601 format, yyyy-mm-dd			x
MHA303	Age	Number of days after hatching	Larvae three days old			x
<b>Production history</b>						
MHA304	Spat tank ID	Spat rearing tank number of the rearing unit/nursery unit	20		x	
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						



Table 4 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
MHA305	GAqP records	Records of disinfection of reservoirs, water filtration units, rearing tanks, etc., or indication if records are available in electronic form, on paper, or not available	Paper/electronic			x
MHA306	Disease record	Records of names and period of diseases or indication if records are available in electronic form, on paper, or not available	Paper			x
MHA307	Treatment record	Medicine or chemical names and period of use or indication if records are available in electronic form, on paper, or not available	Approved medication records, paper			x
MHA308	Larvae hatch fecundity (LHF)	Number of larvae that hatched out from one female in the production batch	7-40 million eggs ( <i>M. edulis</i> )			x
MHA309	Density record	Record of stocking density of larvae in tanks	Nos./m <sup>3</sup>			x
MHA310	Feeding record	Type of feed	Micro algae culture			x
MHA311	Hatchery certification scheme	Name of national/international GAqP scheme by which the hatchery is certified	National Competent Authority			x
MHA312	Certifying body identifier	Name and authorization of the certifying body	National Competent Authority or unique identification number of the certifying body			x
<b>Transformation information</b>						
MHA313	Trade unit ID of broodstock received	List of IDs of received trade units that make up this created trade unit	Unique identification number of the broodstock received	x		
MHA314	Fractions	Fraction (%) of the created unit that was made up by each received trade unit	UTUI 1 - 50 % UTUI 2 - 50 %		x	
<b>Additional data</b>						
MHA350-	(unassigned)	Further information elements that describe the created trade unit, linked to UTUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 4 (continued)

Data element	Description	Examples	Categorization		
			Shall	Should	May
<b>FOR EACH LOGISTIC UNIT CREATED</b>					
<b>Identities</b>					
MHA401	Unit ID <sup>a</sup>	ULUI	400653005555555568	x	
MHA402	Trade unit IDs	The IDs of the trade units within the logistic unit	400653005555555571 400653005555555572 400653005555555573	x	
<b>Additional data</b>					
MHA450-	(Unassigned)	Further information elements that describe the created logistic unit linked to ULUI			x
<b>FOR EACH UNIT DISPATCHED</b>					
<b>Identity</b>					
MHA501	Unit ID <sup>a</sup>	UTUI		x	
<b>Destination</b>					
MHA502	Next food business ID	Unique national identification number for the farm plus country prefix or name and address of the food business to where the unit is dispatched (transporter or bivalve farm etc.)	M/S Kandekadu molluscan farm Chellanam, Kerala, India	x	
MHA503	Date and time of dispatch	Date and time of transfer to next food business, ISO 8601 format	2010-10-29T13:00		x
<b>Additional data</b>					
MBHA550-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.					

## 6.6 Molluscan farms

For the purposes of this International Standard, molluscan farms are considered to be businesses that receive molluscs/spat and keep them during the growing stage and dispatch the grown molluscan spat/adults at required quantities to the processor/trader/retailer, etc.

The molluscan farms can change the nature of molluscan products by carrying out operations such as feeding, grading, etc. Molluscan farms create new trade units that can range from a few tons to several hundred tons passed into the hands of the next food business.

Table 5 — Detailed information for molluscan farms

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>MOLLUSCAN FARMS</b>						
MFF101	Molluscan farm ID	Unique national identification number for the farm plus country prefix or name and address of the food business that operates the molluscan farm establishment	M/S Kandekadu molluscan farm Chellanam, Kerala, India	x		
MFF102	Certification	Name of molluscs aquaculture certification scheme by which the molluscan farm is certified	National Competent Authority or any national or international certification/approval scheme			x
MFF150-	Unique Identification number of certifying agency	Unique identification number or address of certifying agency and authorization	M/S XYZ, INDOCERT, Aluva Quality Council of India			x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MFF201	Unit ID	ULUI or UTUI of the seed (/spat) received from farm/natural seed collector	50065300555555568	x		
MFF202	Trade unit IDs	If received as a ULUI, the IDs of trade units within the logistic unit	50065300555555568 50065300555555569 50065300555555570	x		
<b>Source</b>						
MFF203	Previous food business ID	Unique national identification number for the hatchery/natural seed collector plus country prefix or name and address or GLN of previous food business from whom the unit was received (hatchery/natural seed collector with location)	Unique national identification number/ GSI and CMFRI, edible oyster hatchery, Narakkal, Cochin, Kerala ambrose natural seed collector Nayarambalam, Kerala, India	x		
MFF204	Date and time of reception	Movement records	2010-10-28T15:05		x	
<b>Control checks (either on logistic or separate trade units)</b>						
MFF205	Temperature check	Temperature (°C) in the received unit	20 °C		x	
MFF206	Health checks/ quality control checks	Types of checks done on units received	Paper, OIE listed diseases and prohibited antibiotics, quality of the seed, and mortality upon receipt			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 5 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Transformation information</b>						
MFF207	Related created trade unit IDs <sup>a</sup>	List of IDs of created trade units that may incorporate part of this received trade unit.	500653005555555568 500653005555555569 500653005555555570	x		
MFF208	Fractions	Fraction (%) of the received spat trade unit that go into each created unit	UTUI-1 25 % UTUI-2 75 %		x	
<b>Additional data</b>						
MFF250-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH NEW TRADE UNIT CREATED BY MOLLUSCAN FARM</b>						
<b>Identity</b>						
MFF301	Unit ID <sup>a</sup>	UTUI	500653005555555568	x		
<b>Description</b>						
MFF302	Location of molluscan farm	Longitude and latitude or other appropriate specification	National number		x	
MFF303	Depuration (bivalves)	Unique national identification number of the harvester /depuration unit and tank number	M/S Kandekadu molluscan farm Chellanam, Kerala, India Xyz (depuration tank number)		x	
MFF304	Count/kg	Nos.	80/120,121/180			x
MFF305	Total quantity per batch	Quantity in each batch traded	1 ton, 3 tons, etc.			x
<b>Production history</b>						
MFF306	Farm unit ID	Internal number of pond/rafts/rakes/any other suitable structures	R-3, etc	x		
MFF307	Temperature record	Temperature/time log (manual/automatic) of the product holding area (pond/raft /cage) for the period between reception and dispatch	(°C)/date and time points			x
MFF308	Density	Stocked molluscan density in farm that went in to the created trade unit, No/m <sup>2</sup> ; kg/m of rope, etc.	Desirable no. e.g. 10 kg/m of rope			x
MFF309	Disease record	Records of names and period of diseases or indication if records are available in electronic and paper form	Paper			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 5 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
MFF310	Treatment record	Medicine or chemical names and period of use or indication if records are available in electronic and paper form	Formalin 100 ppm (mg/kg) for 1 min (2010-06-05) Spark-PS (probiotic)-2010-08-08			x
MFF311	Feeding record	Type of feed	Natural feed/supplementary feed			x
MFF312	Aquaculture certification scheme	National or international certification scheme for farming area	BAP, ACC, Global GAP			x
MFF313	Chilling	Ratio of ice: molluscs used and source of ice or chilling medium used	1:2, Name and address of ice plant or unique identification number of the ice plant			x
MFF314	Live (bivalve)	Temperature and relative humidity	15 °C carton with moistened saw dust			x
MFF315	Certification scheme identifier	Unique national identification number of the scheme	356467737			x
<b>Transformation information</b>						
MFF316	Related received trade unit IDs	List of IDs of received trade units that make up this created trade unit	50065300555555568	x		
MFF317	Fractions	Fraction (% + kilos) of the created unit that was made up by each received trade unit	UTUI-1 50 % UTUI-2 50 %		x	
<b>Additional data</b>						
MFF350-	(unassigned)	Further information elements that describe the created trade unit, linked to UTUI				x
<b>FOR EACH LOGISTIC UNIT CREATED</b>						
<b>Identities</b>						
MFF401	Unit ID	UTUI for the product created by the farm	50065300555555568	x		
MFF402	Trade unit IDs	The IDs of the trade units within the logistic unit	50065300555555568 50065300555555569 50065300555555570	x		
<b>Additional data</b>						
MFF450-	(unassigned)	Further information elements that describe the created logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (Either as a logistic or separate trade unit)</b>						
<b>Identity</b>						
MFF501	Unit ID <sup>a</sup>	ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)	50065300555555568	x		
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 5 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Destination</b>						
MFF502	Next food business ID	Unique national identification number for the processor /trader/caterer plus country prefix or name and address of the food business to whom the unit is dispatched (transporter or processor etc.)	M/S Chemmeens Karuvelipady Kochi, Kerala, India	x		
MFF503	Temperature check	Temperature (°C) of unit at time of dispatch	4 °C		x	
MFF504	Date and time of dispatch	Date and time of transfer to next food business, ISO 8601 format	2010-10-15T18:00		x	
<b>Additional data</b>						
MFF550-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

## 6.7 Processors

For the purposes of this International Standard, processors are considered to be businesses that change the nature of molluscan products by carrying out operations such as shucking, cutting, or by treatments such as blanching or cooking. This includes both primary and secondary processors.

However, fishing vessels that carry out basic operations on the molluscs and retailers and caterers who prepare molluscan products for the consumer are not considered to be processors.

Processors create new trade units. Those units may incorporate ingredients other than molluscan products.

Heat shocking means the process of subjecting bivalve molluscs in the shell to any form of heat treatment such as steam, hot water, or dry heat for a short period of time and/or high-pressure processing to facilitate rapid release of meat from the shell for the purpose of shucking. The heat shock method of preparing molluscs for shucking is not intended to open, kill, blanch, or cook the molluscs, but rather to cause the molluscs to relax its adductor muscles and contract its body so that it can more easily be shucked. High-pressure processing can also be adopted as this process kills microbes. There should be an operable schedule prepared by qualified hands or authorities and the establishment unit should retain all records of the heat/pressure shock process.

Table 6 — Detailed information requirements for processors

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>PROCESSOR</b>						
MPR101	Food business ID	Unique national identification number for the processor plus country prefix as well as name and address of the food business that operates processing establishment	M/S Chemmeens Karuvelipady Kochi, Kerala, India	x		
MPR102	Processing establishment ID	Unique national identification number for the organization plus country prefix as well as name and address or GLN of processing establishment	M/S Chemmeens Karuvelipady Kochi, Kerala, India	x		
MPR103	HACCP/GMP certification	Names of fish quality or food safety GMP schemes by which processor is certified	ISO 22000:2005			x
MPR150-	(unassigned)	Further information elements that describe the organization, linked to processing establishment ID				x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MPR201	Unit ID <sup>a</sup>	ULUI if received as a logistic unit or UTUI if received as a separate trade unit	50065300555555568	x		
MPR202	Trade unit IDs in logistic unit	List of UTUIs of the trade units that make up the logistic unit (if received as a logistic unit)	50065300555555568 50065300555555569 50065300555555570	x		
<b>Source</b>						
MPR203	Previous food business ID	Unique national identification number for the pre-processor/farm/first sale plus country prefix as well as name and address of the food business from whom the unit was received (vessel, first sale, or transporter etc.)	M/S Kandekadu molluscan farm Chellanam, Kerala, India	x		
MPR204	Date and time of reception	Date and time of transfer from previous food business, ISO 8601 format	2010-10-28T06:30		x	
<b>Control checks (related to the logistic or separate trade units, as appropriate)</b>						
MPR205	Temperature of unit when received	Temperature of unit (°C)	<5 °C		x	
MPR206	Unit temperature record	Temperature/time log (manual/automatic if there is a recording device affixed to the unit)	Series of temperature (°C)/date and time points in ISO 8601 format			x
MPR207	Raw material source	Records of source	Raw material receiving records			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 6 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Production history (for all activities between reception and processing)</b>						
MPR208	Raw material storage temperature control method	Iced, iced and refrigerated, or refrigerated	Iced and refrigerated			x
MPR209	Raw material storage temperature record	Temperature/time log (manual/automatic) of storage area for period between reception and processing	Storage time and temperature (°C) -2 °C -4 °C/6 h			x
<b>Transformation information (for each trade unit)</b>						
MPR210	Related created trade unit IDs	List of the UTUIs of the created trade units that may incorporate part of the received trade unit	60065300555555568 60065300555555569 60065300555555570	x		
<b>Additional data</b>						
MPR250-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH TRADE UNIT CREATED</b>						
<b>Identity</b>						
MPR301	Trade unit ID <sup>a</sup>	UTUI	60065300555555570	x		
MPR302	Type of unit	Description of physical type of unit (box or case of 10 retail packs, etc.)	Master cartons			x
MPR303	Net weight	Weight of product (kg)	10 kg			x
MPR304	Name/type of product	Descriptive name of product (IQF octopus gutted, frozen oysters)	Frozen oyster, cooked clam meat			x
MPR305	Product specification	Records of further details of product specification (quality and size grades, etc.) are available in electronic or paper form	Paper form IQF clam meat IQF mussel meat, etc.			x
MPR306	Species	LAT- followed by Latin name or FAO- followed by FAO 3alpha code or TSN- followed by taxonomic serial number (may be repeated if several species)	LAT- <i>Perna viridis</i> FAO-MSV TSN-3161003202		x	
MPR307	Primary production method	Farmed	Farmed			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						



Table 6 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
MPR308	Area/ country of origin	FAO area/RFMO area for farmed molluscs	51	x		
MPR309	Composition	List of names of ingredients and %'s by weight, including molluscs	90 % mussel meat, 10 % glaze			x
MPR310	Product condition	Ambient, chilled, or frozen	Frozen			x
MPR311	Shelf life	Best before or sell by date as appropriate, ISO 8601 format	Sell by 2011-10-30			x
MPR312	GMO (in case of farmed)	Use of any GMO or products from GMO in product or raw material	No			x
<b>Production history</b>						
MPR313	Process specification	Records of process specification are available in electronic or paper form	Paper			x
MPR314	Date and time of production	Time of packing/labelling at end of line, ISO 8601 format	2010-08-20T11:20:46		x	
MPR315	HACCP	Records of hazard analysis and critical control point checks are available in electronic or paper form	Paper			x
MPR316	Hygiene checks	Records of hygiene checks (swab tests, etc.) are available in electronic or paper form	Paper			x
MPR317	Process temperature records	Records of temperatures (processes and process area) are available in electronic or paper form	Paper			x
<b>Transformation information</b>						
MPR318	Related received trade unit IDs that goes into the created trade unit	List of the UTUIs of the received trade units that may be input to the created trade unit	60065300555555571 60065300555555572 60065300555555573	x		
<b>Additional data</b>						
MPR350-	(unassigned)	Further information elements that describe the created trade unit, linked to UTUI				x
a The same unique ID for raw material/product will continue if there is no transformation.						

Table 6 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>FOR EACH LOGISTIC UNIT CREATED</b>						
<b>Identities</b>						
MPR401	Logistic unit ID	ULUI	(00) 70065300555555570	x		
MPR402	Trade unit IDs in logistic unit	List of UTUIs of the trade units that make up the logistic unit	678817525.076 6.000010166 678817525.076 6.000010167 678817525.076 6.000010268	x		
<b>Additional data</b>						
MPR450-	(unassigned)	Further information elements that describe the created logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>						
<b>Identity</b>						
MPR501	Unit ID <sup>a</sup>	ULUI if dispatched as a logistic unit or UTUI if dispatched as a trade unit	70065300555555570	x		
<b>Production history (related to the logistic or separate trade units, as appropriate)</b>						
MPR502	Product storage temperature control method	None, refrigerated, or frozen storage	Frozen			x
MPR503	Product storage temperature record	Temperature/time log (manual/automatic) of product holding area for period between processing and dispatch	Series of temperature (°C) -20 °C ± 2°C /6 months			x
<b>Destination</b>						
MPR504	Next food business ID	Unique national identification number for the transporter plus country prefix as well as name and address of the food business to whom the unit is dispatched (transporter or wholesaler, etc.)	KTC, Market road Ernakulam, Kerala, India  M/S XYZ shipping company W. Island Kochi, Kerala, India  M/S Choice Canning Co. Boston, USA	x		
MPR505	Date and time of dispatch	Date and time in ISO 8601 format	2010-10-29T16:30			
<b>Additional data</b>						
MPR550-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

## 6.8 Transporters and store operators

For the purposes of this International Standard, transporters and store operators are considered to be businesses that provide the service of transporting or storing goods. They may operate at various stages in distribution chains, transporting, or storing raw materials or products. Transport can be by land, sea, or air.

Transporters and stores do not break down or create trade units, but can break down or create logistic units.

### 6.8.1 Live molluscs

For the purposes of this International Standard, live mollusc transporters and store operators are considered to be businesses that provide the service of transporting or storing goods. They may operate at various stages in distribution chains, transporting, or storing raw materials or products. Transport can be by land, sea, or air.

Transporters and stores do not break down or create trade units, but can break down or create logistic units.

**Table 7 — Detailed information requirements for live molluscan transporters and store operators**

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>LIVE MOLLUSC TRANSPORTERS AND STORE OPERATORS</b>						
MTR101	Food business ID	Unique national identification number for the organization plus country prefix as well as name and address of the food business that operates transport vehicle or vessel establishment	Unique national identification number, M/S ABT transports CPC building, Cochin 682029 Kerala, India	x		
MTR102	Transport vehicle or vessel establishment ID	Name (if vessel) and registration number of vehicle or vessel or unique national identification number for the organization plus country prefix, as well as name and address of establishment or GLN number	KL 07 2257	x		
MTR103	Transporter GMP certification	Names of molluscan quality or food safety GMP schemes by which transporter is certified	HACCP certification			x
MTR150-	(unassigned)	Further information elements that describe the organization, linked to transport vehicle ID, or vessel establishment ID				x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MTR201	Unit ID <sup>a</sup>	ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)	700653005555 555560	x		
MTR202	Trade unit IDs	If received as a logistic unit, the IDs of the trade units within the logistic unit	600653005555 555561 600653005555 555562 600653005555 555563	x		
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 7 (continued)

Data element	Description	Examples	Categorization			
			Shall	Should	May	
<b>Source</b>						
MTR203	Previous food business ID	Unique national identification number for the organization plus country prefix as well as name and address of the food business that operates establishment	583, M/S ABT Transports CPC Building, Cochin 682029 Kerala, India	x		
MTR204	Date and time of reception	ISO 8601 format	2010-09-28T16.00		x	
<b>Control checks (either on logistic or separate trade units)</b>						
MTR205	Temperature check	Temperature in unit when received °C	+2,0 °C		x	
MTR206	Temperature record	If recording device is affixed to batch, temperature/time record from creation of unit onward	Series of temperature (°C)/date and time points in ISO 8601 format		x	
<b>Additional data</b>						
MTR250	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH NEW LOGISTIC UNIT CREATED BY TRANSPORTER</b>						
<b>Identities</b>						
MTR301	Unit ID	ULUI	800653005555 555560	x		
MTR302	Trade unit IDs	The IDs of the trade units within the logistic unit	700653005555 555560 700653005555 555561 700653005555 555562	x		
<b>Additional data</b>						
MTR350-	(unassigned)	Further information elements that describe the created logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>						
<b>Identity</b>						
MTR401	Unit ID <sup>a</sup>	ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)	800653005555 555560	x		
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 7 (continued)

Data element	Description	Examples	Categorization		
			Shall	Should	May
<b>Production history</b>					
MTR402	Temperature control method	None, iced, iced and refrigerated, or refrigerated		x	
MTR403	Temperature record	Temperature/time (manual/automatic) log of the product holding area for the period between reception and dispatch			x
MTR404	Disinfecting date	Date of last disinfecting and data of the boat/truck or indication if records are available in electronic form, on paper, or not available, ISO 8601 format			x
MTR405	Water parameter record	Water parameter record (names and values) in molluscan carrier tank water during transport or indication if records are available in electronic form, on paper, or not available			x
MTR406	Molluscan density	Molluscan density in transport tank, kg molluscan per cubic meter water			x
<b>Destination</b>					
MTR407	Next food business ID	Unique national identification number for the organization plus country prefix, as well as name and address of the food business to whom the unit is dispatched (transporter etc.)	x		
MTR408	Place of delivery	If not at receivers address		x	
MTR409	Date and time of dispatch	ISO 8601 format		x	
<b>Additional data</b>					
MTR450-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.					

### 6.8.2 Molluscs other than live

For the purposes of this International Standard, transporters and store operators are considered to be businesses that provide the service of transporting or storing goods. They may operate at various stages in distribution chains, transporting, or storing raw materials or products. Transport can be by land, sea, or air.

Transporters and stores do not break down or create trade units, but can break down or create logistic units.

**Table 8 — Detailed information requirements for transporters and store operators for molluscs other than live**

Data element	Description	Examples	Categorization			
			Shall	Should	May	
<b>TRANSPORTERS OR STORE OPERATORS</b>						
MTS101	Food business ID	Unique national identification number for the transporters/store operators plus country prefix or name and address of the food business that operates transport vehicle or storage establishment	M/S CCI Reefer Corporation W. Island, Cochin 682029 Kerala, India	x		
MTS102	Transport vehicle or storage establishment ID	Unique national identification/registration number for the vehicle/storage establishment plus country prefix and name or GLN	KI - 07 AF-5432 M/s.Abad frozen store, Aroor, India	x		
MTS103	HACCP/GMP certification	Names of the food safety GMP schemes by which transporter or store operator is certified	ISO 22000:2005			x
MTS150-	(unassigned)	Further information elements that describe the organization linked to transport vehicle ID or storage establishment ID				x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MTS201	Unit ID <sup>a</sup>	ULUI if collected or received as a logistic unit or UTUI if received as a separate trade unit	700653005555 555570	x		
MTS202	Trade unit IDs in logistic unit	List of UTUIs of the trade units that make up the logistic unit (required only if received as a logistic unit and it is to be broken down or transformed by the transporter or store operator)	600653005555 555571 600653005555 555572 600653005555 555570	x		
<b>Source</b>						
MTS203	Previous food business ID	Unique national identification number for the processor plus country prefix or name and address of the food business from whom the unit was received (vessel, first sale or processor, etc.)	M/S Chemmeens Karuvilipady Kochi, Kerala, India	x		
MTS204	Date and time of reception	Date and time in ISO 8601 format	2010-07- 29T16:00		x	
MTS205	Place of collection	Unique national identification number for the organization plus country prefix as well as name and address or GLN or approximate latitude and longitude if transferred at sea (this is required only for transporters)	M/S Chemmeens Karuvilipady Kochi, Kerala, India		x	
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 8 (continued)

Data element	Description	Examples	Categorization			
			Shall	Should	May	
<b>Control checks (related to the logistic or separate trade units, as appropriate)</b>						
MTS206	Temperature of unit when received	Temperature of unit °C	-20 °C ± 2 °C		x	
<b>Additional data</b>						
MTS250-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH NEW LOGISTIC UNIT PRODUCED BY TRANSPORTER OR STORE OPERATOR</b>						
<b>Identities</b>						
MTS301	Logistic unit ID	ULUI	900653005555 555570	x		
MTS302	Trade unit IDs in logistic unit	List of UTUIs of the trade units that make up the logistic unit	900653005555 555570 900653005555 555571 900653005555 555572	x		
<b>Additional data</b>						
MTS350-	(unassigned)	Further information elements that describe the produced logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>						
<b>Identity</b>						
MTS401	Unit ID <sup>a</sup>	ULUI if dispatched as a logistic unit or UTUI if dispatched as a trade unit	900653005555 555570	x		
<b>Production history (related to the logistic or separate trade units, as appropriate)</b>						
MTS402	Transporter or store operators temperature control method	Frozen and refrigerated or refrigerated or ambient	-20 °C ± 2 °C		x	
MTS403	Transporter or store operator temperature record	Temperature/time log (manual/automatic) of the molluscs holding area for the period between reception and delivery	Series of temperature (°C) -20 °C ± 2 °C /5 h			x
<b>Destination</b>						
MTS404	Next food business ID	Unique national identification number for the wholesaler or caterer plus country prefix, as well as name and address of the food business to whom the unit is dispatched (transporter or processor, etc.)	M/S Joe patties seafoods, South A St. and Main St, Pensacola, Florida	x		
MTS405	Date and time of dispatch	Date and time in ISO 8601 format	2010-07-29T20:00		x	
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

**Table 8 (continued)**

Data element		Description	Examples	Categorization		
				Shall	Should	May
MTS406	Place of delivery	Unique national identification number for the organization plus country prefix, as well as name and address or GLN or approximate latitude and longitude if transferred at sea (this is required only for transporters)	M/SJoe patties seafoods, South A St. and Main St, Pensacola, Florida  M/SCasmark seafoods Ltd. Toronto, Canada  Amazon cold storages Aroor P.O. Keral, India		x	
<b>Additional data</b>						
MTS450-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

**6.9 Traders and wholesalers**

For the purpose of this International Standard, traders and wholesalers are considered to be merchants who buy, sell, and physically trade molluscan products to other businesses. They may operate at various stages in distribution chains, trading raw materials, or products. They include cash-and-carry type businesses supplying retailers and caterers.

Some traders and wholesalers may create new trade units by breaking down trade units they have received into smaller units or by picking and mixing individual molluscan products from a number of trade units they have received in order to meet the needs of particular customers. However, traders and wholesalers do not change the nature of the molluscan products they trade or they would be considered also to be processors.

Traders and wholesalers can also break down or create logistic units.

**Table 9 — Detailed information for traders and wholesalers**

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>TRADERS OR WHOLESALERS</b>						
MTW101	Food business ID	Unique national identification number for the traders and wholesalers plus country prefix or name and address of the food business that operates trading or wholesaling establishment	M/SJoe patties seafoods, South A St. and Main St, Pensacola, Florida	x		
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						



Table 9 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
MTW102	Trader or wholesaler establishment ID	Unique national identification number for the organization plus country prefix or name and address or GLN of trading or wholesaling establishment	M/S Blue Water Fish Traders, 36/3505, Ernakulam Wholefish Market Market Road, Cochin 682031 Kerala, India	x		
MTW103	GMP certification	Names of molluscs quality or food safety GMP schemes by which trader or wholesaler is certified	Codex GMP			x
MTW150-	(unassigned)	Further information elements that describe the organization, linked to trading or wholesaling establishment ID				x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MTW201	Unit ID	ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)	90065300555555570	x		
MTW202	Trade unit IDs	List of UTUI of the trade units that make up the logistic unit (required only if received as a logistic unit that is to be broken down by the trader or wholesaler)	70065300555555570 70065300555555571 70065300555555572	x		
<b>Source</b>						
MTW203	Previous food business ID	Unique national identification number for the processor/trader/vessel operator/farm plus country prefix or name and address of the food business from whom the unit was received (first sale, processor or transporter, etc.)	M/S CCI Reefer Corporation W. Island, Cochin 682029 Kerala, India M/S Seafood store Pvt. Ltd. 37 Catalina drive Tullamarine, Victoria, Australia	x		
MTW204	Date and time of reception	Date and time in ISO 8601 format	2010-10-25T13:45		x	
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 9 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Control checks (related to the logistic or separate trade units, as appropriate)</b>						
MTW205	Temperature check	Temperature of unit °C	-20 °C ± 2 °C		x	
MTW206	Temperature record	Temperature/time log (manual/automatic) (if there is a recording device affixed to the unit)	Series of temperature (°C), -20 °C ± 2 °C, 10 h			x
<b>Additional data</b>						
MTW250-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH NEW TRADE UNIT PRODUCED BY TRADER OR WHOLESALER</b>						
<b>Identity</b>						
MTW301	Trade unit ID	UTUI	978817525.076 6.000010272	x		
<b>Description</b>						
MTW302	Type of unit	Description of physical type of unit (box or case of 10 retail packs, etc.)	Box		x	
MTW303	Product condition	Ambient or frozen	frozen			x
<b>For each different component part of trade unit</b>						
MTW304	Received trade unit ID	The UTUI of the received trade unit from which the component was taken	100065300555 5555571 100065300555 5555572 100065300555 5555573	x		
MTW305	Type of molluscan product	Identifying description or name of molluscan product	IQF clam meat, squid cleaned			x
MTW306	Net weight	Weight of fishery product (kg)	3,6 kg		x	
<b>Additional data</b>						
MTW350-	(unassigned)	Further information elements that describe the produced trade unit, linked to UTUI				x
<b>FOR EACH NEW LOGISTIC UNIT PRODUCED BY TRADER OR WHOLESALER</b>						
<b>Identities</b>						
MTW401	Unit ID <sup>a</sup>	ULUI	100065300555 5555570	x		
MTW402	Trade unit IDs	List of UTUI of the trade units that make up the logistic unit	100065300555 5555571 100065300555 5555572 100065300555 5555573	x		
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 9 (continued)

Data element	Description	Examples	Categorization			
			Shall	Should	May	
<b>Additional data</b>						
MTW450-	(unassigned)	Further information elements that describe the produced logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>						
<b>Identity</b>						
MTW501	Unit ID	ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a trade unit)	100065300555 5555570	x		
<b>Production history (related to the logistic or separate trade units, as appropriate)</b>						
MTW502	Trader or wholesaler temperature control method	Iced, iced and refrigerated, or refrigerated	Iced and refrigerated		x	
MTW503	Trader or wholesaler temperature record	Temperature/time log (manual/automatic) of product holding area for period between reception and dispatch	Series of temperature (°C)/-20 °C ± 2 °C, 10 h (frozen), 2 °C ± 2 °C/2 h (chilled)		x	
<b>Destination</b>						
MTW504	Next food business ID	Unique national identification number of the retailer/customer plus country prefix or name and address of the food business to whom the unit is dispatched (transporter, processor or retailer, etc.)	M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015 M/S Surpass trading Co. Ltd. Hong Kong, China	x		
MTW505	Date and time of dispatch	Date and time of transfer to next food business, ISO 8601 format	2010-07-30T07:00		x	
<b>Additional data</b>						
MTW550-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

## 6.10 Retailers and caterers

For the purposes of this International Standard, retailers and caterers are considered to be suppliers to the public, not to other businesses. They are likely to break down trade units received and may change the nature of molluscan products by preparing them for their customers. Some may package and label the items sold. Retailers and caterers are encouraged to record information on their sales, but the scope of this International Standard does not extend to sale to the public.

**Table 10 — Detailed information for retailers and caterers**

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>RETAILER OR CATERER</b>						
MRC101	Food business ID	Unique national identification number for the organization plus country prefix, as well as name and address of the food business that operates retail or catering establishment	M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015 Surpass Trading Co. Ltd. Hong Kong, China Market Road, Cochin 682031	x		
MRC102	Retail or catering establishment ID	Unique national identification number for the organization plus country prefix, as well as name and address or GLN of retail/catering establishment	M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015	x		
MRC103	Processor GMP Certification	Names of molluscs quality or food safety GMP schemes by which retailer or caterer is certified	Codex GMP			x
MRC150-	(unassigned)	Further information elements that describe the organization, linked to retail or catering establishment ID				x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MRC201	Unit ID <sup>a</sup>	ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)	100065300555 5555570	x		
MRC202	Trade unit IDs	If received as a logistic unit, the IDs of the trade units within the logistic unit	100065300555 5555571 100065300555 5555572 100065300555 5555573	x		
<b>Source</b>						
MRC203	Previous food business ID	Unique national identification number for the organization plus country prefix, as well as name and address or GLN of previous food business from whom the unit was received (processor, wholesaler or transporter, etc.)	M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015 Surpass Trading Co. Ltd. Hong Kong, China	x		
MRC204	Date and time of reception	ISO 8601 format	2010-06-20T10:34		x	
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 10 (continued)

Data element	Description	Examples	Categorization			
			Shall	Should	May	
<b>Control checks (either on logistic or separate trade units)</b>						
MRC205	Temperature check	Temperature of unit °C at reception	2 °C - 4 °C		x	
MRC206	Temperature record	If recording device is affixed to batch, temperature/time record from creation of unit onward	Series of temperature (°C)/date and time points in ISO 8601 format		x	
<b>Additional data</b>						
MRC250-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH TRADE UNIT HELD FOR SALE</b>						
<b>Identity</b>						
MRC301	Unit ID <sup>a</sup>	UTUI	100065300555 5555571 100065300555 5555572 100065300555 5555573	x		
<b>Production history (related to the logistic or separate trade units, as appropriate)</b>						
MRC302	Temperature control method	None, iced, refrigerated, iced and refrigerated, etc.	Iced and refrigerated			x
MRC303	Temperature record	Temperature/time log (manual/automatic) of product storage area for period between reception and sale	Series of temperature (°C)/date and time points in ISO 8601 format		x	
<b>Additional data</b>						
MRC350-	(unassigned)	Further information elements that describe the trade unit held for sale, linked to UTUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

### 6.11 Bringing in supplies from outside the domain

The following information requirements apply to molluscs and materials received from businesses that are not operating to these specifications. This includes the supply of non-fish ingredients to breeders, hatcheries, molluscs farms, processors, and molluscs feed producers. These requirements replace those under the heading for “each unit received”, sub-heading “identities”, in each of the respective tables above, and are additional to the other requirements tabulated. They both identify and provide a description of the received units.

Table 11 — Bringing in supplies from outside the domain

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>FOR EACH UNIT RECEIVED FROM OUTSIDE THE DOMAIN</b>						
<b>Identities</b>						
MOT101	Unit ID	ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit- or each item other than shellfish brought from outside the domain	Unique national identification number (00) 1006530055555 55558 918817525.076 6.000010400 918817525.076 6.000010401	x		
MOT102	Trade unit IDs	If received as a logistic unit, the IDs of the trade units within the logistic unit	918817525.076 6.000010400 918817525.076 6.000010401	x		
MOT150-	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH TRADE UNIT RECEIVED FROM OUTSIDE THE DOMAIN</b>						
<b>General description</b>						
MOT201	Creator of unit	Name, address, and national unique identification number or EAN code of establishment.	xxx.xxxxxx. xxxxx x. M/SFalcon polymers, Hyderabad, Andhraprad- hesh, India xxx.xxxxxx. xxxxxxx M/S Bharath chemicals Ravipuram, Cochin, Kerala, India	x		
MOT202	Creator's GMP certification	Names of certification schemes.	Codex			x
MOT203	Type of unit	Packing material, additives, etc.	Insulated Box/cartons, Polyfilm bundle 100 kg, Polyphospahte 10 kg polythene lined bag, etc.			x
MOT204	Net weight	Net weight of received trade unit (kg)	10 kg, 500 kg, etc.			x
MOT205	Product condition	Ambient, chilled, or frozen	Polyphosphate at ambient temperature			x
MOT250-	(unassigned)	Further information elements that describe each trade unit, linked to UTUI				x

Table 11 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Further description of each trade unit for packaging of molluscan products</b>						
MOT301	Name/type of product	Commercial product name	Polythene films 150 gauge, Master carton – five ply/ seven ply CFB box RSC/ or two piece lid tray type			x
MOT302	Product code	HS code for product type	0305410000			x
MOT303	Composition	Chemical composition	Food grade Polyethylene 100 %			x
MOT304	Date and time of production	ISO 8601 format	2010-06-23T12:50		x	
MOT350-	(unassigned)	Further information elements that describe each processed fishery product trade unit, linked to UTUI				x
<b>Further description of each trade unit for ingredients to be incorporated in processed molluscan products</b>						
MOT401	Name/type of ingredient	Descriptive name of ingredient (salt, olive oil, breadcrumbs, or potato flakes, etc.)	Food grade salt			x
MOT402	Composition	List of scientific names and % by weight	NaCl 100 %			x
MOT403	Shelf life	Best before or sell by date, as appropriate, ISO 8601 format	Best before 2010-09-23			x
MOT404	Preservation	Ice				x
MOT450-	(unassigned)	Further information elements that describe each ingredient, linked to UTUI				x
<b>Further description for medicine, chemical treatment</b>						
MOT501	Name/type of product	Commercial product name	Sodium metasilicate (13 % Si) 10,60 g per m <sup>3</sup>		x	
MOT502	Shelf life	Best before or sell by date, as appropriate, ISO 8601 format	Best before 2011-11-25		x	
MOT503	Production date	Time of packing/labelling at end of line, ISO 8601 format	04-09-2010		x	
MOT504	Composition	List of scientific names and % by weight				x
MOT550-	(unassigned)	Further information elements that describe each ingredient, linked to UTUI			x	

### 6.12 Molluscan feed producers

For the purposes of this International Standard, molluscan feed producers are considered to be businesses that produce molluscan feeds based on an indefinite range of ingredients. They can be considered as an equivalent to the processors, but will be presented as a separate link in this International Standard.

Presently, limited artificial feeding is used in bivalve hatcheries and no artificial feed is used in grow-out. In the future, if bivalve hatchery and farming requires the feeds such as micro algal powder/paste or any other novel feeds, the concerned unit (logistic/trade) shall maintain traceability records of feed ingredients/feed production and follow the accepted standard.

**Table 12 — Detailed information for molluscan feed production**

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>MOLLUSCAN FEED</b>						
MFE101	Food business ID	Unique national identification number for the organization plus country prefix, as well as name and address of the food business that operates feed company	M/S XYZ Company Rameshwaram, Tamil nadu, India	x		
MFE102	Feed producer certification scheme	Names of certification standard and agency	FSMS, INDOCERT, Aluva		x	
MFE150-	(unassigned)	Further information elements that describe the organization, linked to feed producer establishment ID				x
<b>FOR EACH UNIT RECEIVED</b>						
<b>Identities</b>						
MFE201	Unit ID	ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)	200653005555 555568 200653005555 555569 200653005555 555570	x		
MFE202-	(unassigned)	Further information elements that describe the organization, linked to feed producer establishment ID				x
<b>Source</b>						
MFE203	Previous food business ID	Unique national identification number for the organization plus country prefix, as well as name and address or GLN of food business that operates feed producer establishment	M/S XYZ, fish meal plant, Vishakapatnam, Andhra pradesh, India	x		
MFE204	Date and time of reception	ISO 8601 format	2010-10-31T14:15		x	
<b>Control checks (either on logistic or separate trade units)</b>						
MFE205	Quality control checks, GMP certification	Type of checks and measured results (organoleptic, physical, chemical, and microbiological, etc.) or indication if records are available in electronic form, on paper, or not available GMP certificate from accredited agency	Yes, paper form BIS			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						



Table 12 (continued)

Data element	Description	Examples	Categorization			
			Shall	Should	May	
<b>Production history</b>						
MFE206	Temperature record	Temperature/time log (manual/automatic) of the product holding area for the period between reception and processing	Series of temperature (°C)/date and time points in ISO 8601 format			x
<b>Transformation information</b>						
MFE207	Related created trade unit IDs <sup>a</sup>	List of IDs of created trade units that may incorporate part of this received trade unit.	200653005555 555568 200653005555 555569 200653005555 555570	x		
MFE208	Fractions	Fraction (% , kilos) of the received trade unit that go into each created unit	UTUI-1 33 %, 7250 kg UTUI-2 33 %, 7250 kg UTUI-3 33 %, 7250 kg		x	
<b>Additional data</b>						
MFE250	(unassigned)	Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI				x
<b>FOR EACH NEW TRADE UNIT CREATED</b>						
<b>Identity</b>						
MFE301	Unit ID	UTUI	300653005555 555568	x		
<b>Description</b>						
MFE302	Molluscan live feed	Diatoms, flagellates	<i>Chaetoceros gracilis</i> , <i>Isochrysis galbana</i>		x	
MFE303	Area/country of origin	FAO area/RFMO area farmed fish or more specific location (may be several areas)	51	x		
<b>Production history</b>						
MFE304	Process specification	Records of process specification are available in electronic form, on paper, or not available	Paper			x
MFE305	HACCP and Pre-requisites	Records of hazard analysis and critical control point checks are available in electronic form, on paper, or not available	Paper			x
MFE306	Product form	Live feed	Feed size- 0.3 - 5 mm			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 12 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Transformation information</b>						
MFE307	Related received trade unit IDs	List of IDs of received trade units that make up this created trade unit	200653005555 555568 200653005555 555569 200653005555 555570	x		
MFE308	Fractions	Fraction (% + kilos) of the created unit that was made up by each received trade unit	UTUI-1 25 % 50 kg UTUI-2 25 % 50 kg UTUI-3 25 % 50 kg UTUI-4 25 % 50 kg		x	
<b>Additional data</b>						
MFE350-	(unassigned)	Further information elements that describe the created trade unit, linked to UTUI				x
<b>FOR EACH LOGISTIC UNIT CREATED</b>						
<b>Identities</b>						
MFE401	Unit ID <sup>a</sup>	UTUI	300653005555 555568 300653005555 555569 300653005555 555570	x		
MFE402	Trade unit IDs	The IDs of the trade units within the logistic unit	300653005555 555568 300653005555 555569 300653005555 555570	x		
<b>Additional data</b>						
MFE450-	(unassigned)	Further information elements that describe the created logistic unit, linked to ULUI				x
<b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>						
<b>Identity</b>						
MFE501	Unit ID	ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)	300653005555 555568	x		
<b>Production history</b>						
MFE502	Temperature record	Temperature/time log of the product (manual/automatic) holding area for the period between processing and dispatch	Series of temperature (°C)/date and time points in ISO 8601 format			x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

Table 12 (continued)

Data element		Description	Examples	Categorization		
				Shall	Should	May
<b>Destination</b>						
MFE503	Next food business ID	Unique national identification number for the organization plus country prefix, as well as name and address of the food business to whom the unit is dispatched (transporter hatchery or fish farm, etc.)	M/S Kandekadu molluscan farm Chellanam, Kerala, India	x		
MFE504	Date and time of dispatch	Date and time of transfer to next food business, ISO 8601 format	2010-06-20T14:15		x	
<b>Additional data</b>						
MFE550-	(unassigned)	Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI				x
<sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation.						

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