

1 INTRODUCTION

1.1 Scope

To restore trust in safe meat, dairy and eggs, additional efforts are required. Through SecureFeed the animal feed sector contributes to supply chain assurance and the strengthens risk management. Amongst others this is achieved by setting Specific Product Requirements. This document covers the requirements of SecureFeed for controlling the food and feed safety of the products / product groups as listed under item 2 "Product".

For said products / product groups, the requirements specified under 3 "Requirements" are binding and must be met at all times before a product / product group can be delivered to SecureFeed participants for processing in feed / direct delivery as feed.

During supplier and / or producer audits, carried out in the name of SecureFeed, it is verified whether the specific product requirements are met.

SecureFeed evaluates the Specific Product requirements at least once a year. The Specific Product requirements are published on the public section of the website (www.securefeed.eu).

1.2 Definitions

SecureFeed: A partnership of feed companies for the assurance of feed and food safety through joint risk assessment and monitoring of animal feed and assessment of suppliers (www.securefeed.eu).

Positive release: the release of a product from quarantine after the completion of analytic and / or microbiological analysis with satisfactory results, in which it is confirmed that the defined quality standards have been met.

Batch: an identifiable amount of feed in which common characteristics have been identified, such as origin, kind, type, packaging, packaging company, sender or labeling; and in case of a production process, a unit production of a company that uses uniform parameters in its production or a number of such units, produced in sequence and stored together. (Reg. (EG) no. 183/2005, annex II).

1.3 Prerequisites

- Products and suppliers must meet the applicable EU legislation and regulations and the requirements in the GMP+ Feed Safety Assurance scheme (www.gmpplus.org) or an equivalent quality assurance system for food safety.
- In addition to the legal action and rejection limits, the SecureFeed action and rejection limits are in effect as specified in D-01, *Action and rejection limits* (www.securefeed.eu).

2 PRODUCT

These specific product requirements apply for the products specified in D-24b, *List of Specific Product requirements*. If producers / suppliers process one or more of the products mentioned in D-24b, in a ration higher than 25% (cumulative) in mixtures / compound feeds they supply to SecureFeed participants, the specific product requirements also apply to the products they process in these mixtures / compound feed.

3 REQUIREMENTS

3.1 Geographic origin

No animal by-products can originate from protected areas.

3.1.1 Cultivation / primary production: the origins below are authorized

- EU / Norway cultivated and / or caught product, with the exception of the sea areas;
 - Baltic sea

- Black sea
- Caspian sea
- Product caught off the West Coast of South America (Chile, Peru)
- Product caught around Iceland
- Product caught off the west coast of Morocco and Mauritania

3.1.2 Processing: Land of cultivation / capture or originating from West Europe

3.1.3 Assessment of new areas of origin: New areas of origin shall only be authorized after assessment and approval by SecureFeed. A request for authorization of a new area of origin shall be submitted to SecureFeed and contains at least the following information:

- A clear description of the cultivation region / the capture region (such as based on FAO major Fishing Areas, <http://www.fao.org/fishery/area/search/en>);
- A description of the cultivated / caught species;
- Independent data about dioxins, dioxin-like PCBs and non-dioxin-like PCBs for fish and fish (by) products from the relevant region;
- Information about the quality assurance system of the producer of the fish and fish (by) products (GMP+ FSA, ISO22000 etc.), where possible supplemented with relevant fishery standards (such as Marine Stewardship Council on sustainable fishery);
- Information about the use of processing aids and additives;
- Historic information regarding dioxins, dioxin-like PCBs and non-dioxin like PCBs for fish and fish (by) products of the producer / supplier;
- Information about analysis results / levels of PAHs and heavy metals (mercury, arsenic, lead, cadmium) in the products, intended for delivery to SecureFeed participants.

SecureFeed assesses the request based on the supplied information and makes a decision on whether or not to authorize a new area of origin. The submitter of the request will be informed about the result of the assessment.

3.2 Producers

Suppliers must have an up-to-date list of producers that is demonstrably known to SecureFeed. Producers have been assessed and approved by SecureFeed, before suppliers can supply products of these producers to SecureFeed participants.

Producers and fish processing companies are EU approved. For the various regions, the following applies:

EU / Norway / Iceland:

- In case of processing of fish byproducts, the previous links (fish processing, filleting companies etc) must be available for review. These products must be purchased directly at the fish processing company based on clear specifications.

Other regions:

- Sealed transport from producer to tank / bulk storage.

3.3 Production process

No; there are no additional requirements in addition to the European legal requirements and the GMP+ FSA requirements.

3.4 Raw materials, additives and processing aids

3.4.1 Raw materials

Raw materials (the fish and shrimp) cannot be protected populations and / or species. The following fish species / fish groups are authorized

- South America: Peruvian anchovy (*Engraulis ringens* (Jenyns, 1842)
- Other regions: fish from open water (pelagic fish)
- Norwegian aquaculture: Rainbow Trout (*Oncorhynchus mykiss*) for the production of fishoil.

For the production of salmon oil and salmon oil on carrier

- Atlantic salmon (*Salmo salar*)

For the production of shrimp meal: no additional requirements

3.4.2 Additives:

All additives used are authorized in the EU.

3.4.3 Processing aids:

All processing aids used are demonstrably assessed on their impact on food and feed safety by means of an HACCP analysis, being assessed as suitable and safe..

3.5 Monitoring

Parameter	Unit		SecureFeed limits (88% DM)		Frequency
			Action	Rejection	
Dioxins	ng WHO-PCDD/F-TEQ/kg	Fish oil	4.0	5.0	Every batch
		Salmon oil			
		Salmon oil on carrier			
		Fish oil DHA / Peru			
Dioxin-like PCBs	ng WHO-PCB-TEQ/kg	Fish meal	0.75	1.25	
		Fish protein concentrate (< 20% crude fat)			
		Fish protein concentrate (> 20% crude fat)	1.25	1.75	
		Shrimp meal			
Dioxin-like PCBs	ng WHO-PCB-TEQ/kg	Fish oil	11.0	-	
		Salmon oil			
		Salmon oil on carrier			
		Fish oil DHA / Peru			
Dioxin-like PCBs	ng WHO-PCB-TEQ/kg	Fishmeal	2.0	-	
		Fish protein concentrate (< 20% crude fat)			
		Shrimp meal			
Dioxin-like PCBs	ng WHO-PCB-TEQ/kg	Fish protein concentrate (> 20% crude fat)	5.0	-	

Specific Product Requirements

Fish, fish (by) products and marine products of non-mammalian origin

D-24a2

Version: 2.0

Date: July 1st 2018

Monitoring (continued)

Parameter	Unit		SecureFeed limits (88% DM)		Frequency
			Action	Rejection	
Sum of dioxins and dioxin-like PCBs	ng WHO-PCDD/F-PCB-TEQ/kg	Fish oil Salmon oil Salmon oil on carrier Fish oil DHA / Peru	15.0	20.0	n.a.
		Fishmeal Fish protein concentrate (< 20% crude fat) Shrimp meal	3.0	4.0	
		Fish protein concentrate (> 20% crude fat)	6.75	9.0	
Non-dioxin-like PCBs	µg/kg	Fish oil Salmon oil Salmon oil on carrier Fish oil DHA / Peru	130	175	Monitoring based on HACCP analysis
		Fishmeal Fish protein concentrate (< 20% crude fat) Shrimp meal	22.5	30	
		Fish protein concentrate (> 20% crude fat)	37.5	50	
Arsenic	mg/kg	All products mentioned	18.75	25	
Cadmium	mg/kg	All products mentioned	1.5	2	
Lead	mg/kg	All products mentioned	7.5	10	
Mercury	mg/kg	All products mentioned	0.375	0.5	

Analyses are carried out in laboratories accredited for the determination of the identified contaminant in the relevant product matrix in accordance with ISO/IEC 17025:2005. Described monitoring is without prejudice to the fact that all analyses prescribed by GMP+ FSA and EU regulations must be carried out. Dioxins and dioxin-like PCBs are determined in accordance with the method based on HR-GCMS or a method that is at least comparable. Calux is insufficient.

3.6 Non-conformities

Batches that do not meet these specific requirements are blocked and not delivered to SecureFeed participants. If part of a batch has already been delivered to SecureFeed participants, supplier shall immediately inform these buyers of the exceedance / non-conformity.

The supplier investigates non-conformities and takes corrective and preventive measures. The supplier informs its buyers and SecureFeed about the measures taken.

3.7 Positive release

Yes; positive release applies for all described products for the determination of dioxins and dioxin-like PCBs.

3.8 Transport

No additional requirements apply in addition to the applicable GMP+ and legal requirements.

3.9 Labeling and shipping documents

Each delivery of a batch is accompanied by a copy (digital / paper) of the original analysis certificate for the specified contaminants associated with this batch. At the time of delivery the aforementioned analysis certificate shall not be older than 3 months. For everything else, the applicable GMP+ and legal requirements must be met.

3.10 Other requirements

Not applicable.