



# Ensuring the Integrity of the European food chain

## Using the Food Integrity Network & the Food Integrity Knowledge Base

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# Key elements for food fraud mitigation

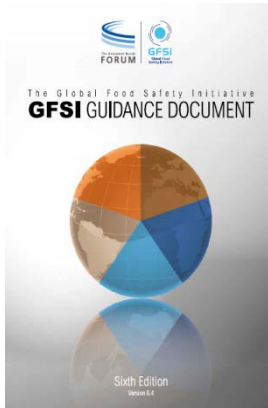
## Requirements for the food industry



**Vulnerability Assessment**



**Vulnerability Mitigation Plan**



# Key elements for food fraud mitigation

## Requirements for the food industry

Incorporation in  
GFSI Guidance  
Document Vs. 7  
(2016)



Incorporation in  
Food Safety  
Management  
Schemes



Implementation  
and execution  
in companies'  
FS Management  
System

Certification via  
third party  
audits



# Key elements for food fraud mitigation

5.4.1 The company shall have processes in place to access information on historical and developing threats to the supply chain which may present a risk of adulteration or



conformité et authenticité des produits vérifiées, sur la base d'une analyse des dangers et d'une évaluation des risques associés

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# Information provided by the Food Integrity Project



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 613688

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[www.foodintegrity.eu](http://www.foodintegrity.eu)



# Information provided by the Food Integrity Network

A searchable database of experts

## Food Integrity Network

**Food Integrity (FI) Stakeholder/Expert Database** is a searchable tool to identify people/organisations with a particular skill set in the area of food integrity

New Registration

Manage Lookups

### Search entries

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For the multiple option boxes please hold down the 'ctrl' key to select more than one option.

Show records:

Food Integrity ▼



# Information provided by the Food Integrity Network

Role in the network:

Organisation type:   
Industry  
Multinational/global organisation  
Non-governmental organisation (NGO)  
Policy maker

Country:   
Austria  
Azerbaijan  
Bahrain  
Bangladesh

Field:   
Food quality  
Food safety

Food safety topics:   
Biological hazards  
Biological monitoring  
Consumer research  
Contaminants

Analytical techniques:   
Compendium (or industry specifications) methods  
Electrophoresis  
Elemental Analysis  
Immunoassay

Commodity:   
Animal Feed  
Animal Products  
Fats and oils  
Food additives

A searchable  
database of  
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# Information provided by the Food Integrity Project

A searchable database of food integrity issues and related analytical solutions



## Food Integrity Knowledge Base Search Form

Select a Food Category (compulsory)

Eggs and egg products

Choose from a drop down menu

And/Or a CN code (enter only the first four digits)

And/Or use a wildcard search for a keyword(s)

Multiple words can be used, separate with AND / OR / AND NOT in upper case

e.g. goat AND cheese, oil AND NOT rape

addition AND incubate

And/Or type of fraud: Select one or more

- Dilution
- Substitution
- Concealment/masking
- Mislabelling
- Unapproved enhancement
- Grey market
- Counterfeiting

Then click Get Results

And/Or Issue: Select one or more

- Product composition
- Geographical origin
- Botanical/Cultivar/Varietal/Species
- Production system/process
- Product quality

**GET RESULTS**

## Food Integrity Knowledge Base Results

Tick to select	Data Entry No.	Food Category	Commodity Detail	CN Code	Description of issue and scope of analytical solution	Type(s) of fraud	Issue(s)	Analytical strategy	Level of use	
<input type="checkbox"/>	#17	Eggs and egg products	Egg products	4070019	Intentional addition of incubated eggs	Dilution, Substitution, Concealment, Grey market	Product composition, Product quality	Other type of technique	Used routinely by industry	<b>DISPLAY</b>
<input type="checkbox"/>	#18	Eggs and egg products	Fresh eggs	4070019	Partial or complete substitution with eggs without quality and food safety characteristics requested by law and by the contract (as "fresh eggs" or A category)	Dilution, Substitution, Concealment	Product composition, Product quality	Other type of technique	Portable/out of lab	<b>DISPLAY</b>

At this point you can display an individual record

Display selected entries

Export selection to PDF



## Vulnerability Mitigation Plan

### Food Integrity Database Results #17

#### FOOD INTEGRITY ISSUE

**Food category:** Eggs and egg products (Fresh eggs)

**CN Code:** 4070019

**Description:** Intentional addition of incubated eggs

**Type of fraud:** Dilution, Substitution, Concealment, Grey Market

**Issue:** Product composition, Product quality

**Importance:** Rare

**Location in supply chain:** Food manufacturer

#### ANALYTICAL STRATEGY

**Type:** Marker-oriented, Screening method

**Target:** Analysis of chemical marker 3-OH-Butyric Acid

**Chromatography:** GC – Details of method

**Status:** Accepted as a routine method

**Method Use, Extent:** Method transferred to other laboratories

**Method Use, Level of use:** Used routinely by industry

**Complexity:** Software available for automatic processing

**Availability of Analytical Data:** Proprietary

**Expert contact:** Name

Contact details

# The FoodIntegrity Knowledge Base

A body of experts to input and validate the data:



# [www.foodintegrity.eu](http://www.foodintegrity.eu)



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