

Food and Agriculture Organization of the United Nations Centre for Environment Fisheries & Aquaculture Science

# Additional support from the FAO Reference Centre and access to training and resources

# **Rachel Hartnell**

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FAO Reference Centre introductory questionnaire on bivalve mollusc activities – supporting implementation of FAO/WHO <u>Technical guidance for the development of the growing area aspects of</u> <u>Bivalve Mollusc Sanitation Programmes (fao.org)</u>

#### **Requests for specific assistance in the following areas**

1. Risk assessment and risk management 😉 2. Sanitation of shellfish production areas 🕑 3. Laboratory set up and staff training 🕑 4. Proficiency testing and reference materials 🙂 5. Quality Management Systems for laboratory analyses (e.g. accreditation) 😂 6. Reference or specialist analysis of test samples 🙂 7. Purification 🕑 8. Animal health methods – diseases likely to affect bivalve molluscs (\*\*) 9. Training opportunities and secondments at the FAO Reference Centre at Cefas, UK 10. Opportunities to work with the FAO Reference Centre at Cefas, UK – grant opportunities and joint projects

# <u>Access to resources</u> – 1. Risk assessment and risk management, 2. Sanitation of shellfish production areas

## **Technical Guidance**



GUIDE TECHNIQUE POUR L'ÉLABORATION DU VOLET ZONES CONCHYLICOLES DES PROGRAMMES DE CONTRÔLE SANITAIRE DES MOLLUSQUES BIVALVES

Instructions for meeting Codex Code of Practice for fish and fishery products

## eLearning

Contrôle sanitaire des mollusques bivalves: profil de risques d... Created By Vittoria Gliddon Ercolani · Current Version ~



#### Bivaive Mollusc Sanitation: Growing Area Risk Profile Werter Molles



French and English language versions

Sanitation: Growing Area Assessment & Review minimum for the cefas

English language version only currently

# **Directly at FAO**

Technical guidance for the development of the growing area aspects of bivalve mollusc sanitation programmes, 2nd edition (who.int)

FAO elearning Academy

## Or from the FAO Reference Centre website

FAO Reference Centre for Bivalve Mollusc Sanitation -Cefas (Centre for Environment, Fisheries and Aquaculture Science)

International

Guidance



EXCELLENCE PAGE

Seafood Safety

Legislation and

**Codes of Practice** 

International





Training and e-Learning

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# Access to resources – 3. Laboratory set up and staff training



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**TECHNICAL GUIDANCE AND** CALCULATION **SPREADSHEETS** 

All bivalve mollusc laboratory methods (microbiology) appropriate for use for trade assurance for all major trading partners are available on the FAO Reference Centre website

### GENERIC PROTOCOLS

- Generic Protocol for Enumeration of E. Coli in Bivalve Shellfish using the Most Probable Number Technique (based on ISO 16649-3) NOTE: to access the Shellfish MPN calculators attached to this document it is necessary to first save a copy onto your computer's hard drive
- Generic Protocol for Determination of Faecal Coliform Bacteria in Seawater using the Most Probable Number Technique (based on US FDA BAM Chapter 4)
- Generic Protocol for Detection of Salmonella spp. in Bivalve Molluscs (based on ISO 6579-1)
- Generic Protocol for Detection of Potentially Pathogenic Vibrio spp. in Bivalve Shellfish
- Generic Protocol for Quantitative Detection of Norovirus and Hepatitis A Virus in Bivalve Molluscan Shellfish (using ISO 15216-1)
- Generic Protocol for Enumeration of FRNA Phage in Bivalve Shellfish

<u>Access to resources</u> – 4. Proficiency testing and reference materials, 5. Quality Management Systems for laboratory analyses (e.g. accreditation) 6. Reference or specialist analysis of test samples



- PT79 Final Report Norovirus (Genogroup I and II) and Hepatitis A virus
- PT80 Final Report Enumeration of Escherichia coli and the Detection of Salmonella spp. in Bivalve Molluscan Shellfish
- PT82 Final Report Norovirus (Genogroup I and II) and Hepatitis A virus
- PT83 Final Report Enumeration of Escherichia coli and the Detection of Salmonella spp. in Bivalve Molluscan Shellfish
- PT88 Final Report Detection of Escherichia coli in Shellfish and the Detection of Faecal Coliforms in Water (Pilot)
- PT89 Final Report Norovirus (Genogroup I and II) and Hepatitis A virus
- PT90 Final Report Enumeration of Escherichia coli and the Detection of Salmonella spp. in Bivalve Molluscan Shellfish

Annual Proficiency Testing (PT) available on the FAO Reference Centre website. Annual free PT to Official Laboratories wishing to develop and implement bivalve mollusc production through our FAO programme <u>Proficiency Testing and Quality</u> <u>Assurance - Cefas (Centre for Environment, Fisheries and Aquaculture Science)</u>

Seatood Safet - Cefas (Centr for Environment, Fisheries and Aquaculture Science)



Stockley

Senior Scientist -

Microbiology

Louise Stockley - Cefas (Centre for Environment, Fisheries and Aquaculture Science)

#### FAO Reference Centre website

# <u>Access to resources</u> – 7. Depuration

FAO FISHERIES TECHNICAL PAPER

511

Bivalve depuration: fundamental and practical aspects



Seafood Safety -Cefas (Centre for Environment, Fisheries and Aquaculture Science)



Andrew Younger

> Principal Scientist -Shellfish Hygiene

> > FIND OUT MORE -



<image>

The Reference Centre can provide advice and guidance on the operation, effective running and conditions of approval of bivalve purification (depuration) systems, and undertake research on conditions and different species

<u>Bivalve depuration: fundamental and practical aspects</u> (fao.org)

# <u>Access to resources</u> 8. Animal health methods – diseases likely to affect bivalve molluscs Aquatic Animal Health - Cefas (Centre for Environment, Fisheries and Aquaculture Science)</u>

# WORLD ORGANISATION FOR ANIMAL HEALTH

Collaborating Centre for Emerging Aquatic Animal Diseases





Food and Agriculture Organization of the United Nations



Food and Agriculture Organization of the United Nations

Reference Centre for Antimicrobial Resistance (AMR)

# <image>

#### Reference Centre for Bivalve Shellfish Sanitation





## OCEAN COUNTRY PARTNERSHIP PROGRAMME

Part of a large UK GOV fund 'The Blue Planet'

Integrated approach to biodiversity, marine pollution and sustainable seafood

Enabling more focused activity in target countries

Launched in February 2023 in Senegal, runs for 2 years

Development assistance in Senegal becomes part of this programme, providing additional funding for training on development of bivalve production







9. Training opportunities and secondments at the FAO Reference Centre at Cefas, UK
10. Opportunities to work with the FAO Reference Centre at Cefas, UK – grant opportunities and joint projects

Suggested outcome focused steps -

1. Practical, time limited training visits/secondments to the Cefas laboratory

2. Implementation of methods in Official Control laboratories

3. Expansion of assistance to cover animal health and marine biotoxins and chemical contaminations

