

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 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

Access to resources – 1. Risk assessment and risk management, 2. Sanitation of shellfish production areas

Technical Guidance



eLearning

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







French and English language versions

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)



Seafood Safety Legislation and International Codes of Practice

EXCELLENCE PAGE International Guidance

EXCELLENCE PAGE Training and e-Learning

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FIND OUT MORE

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

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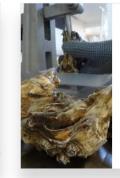
Protocols and Technical Guidance

FIND OL





GENERIC PROTOCOLS



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

Protocols and Technical Guidance Cefas (Centre for Environment,
Fisheries and Aquaculture Science)







- 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



EXCELLENCE PAGE

Annual PT Programme

DOWNLOAD -



PT Reports

DOWNLOAD -



EXCELLENCE PAGE

Troubleshooting Guidance for PT

DOWNLOAD -

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

Proficiency Testing and Quality

Assurance - Cefas (Centre for

Environment, Fisheries and

Aquaculture Science)

PT REPORTS

- 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

 Mellyrean Shallfish
- 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



Seafood Safety
- Cefas (Centre
for
Environment,
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Science)

FAO Reference Centre website



Louise Stockley

Senior Scientist Microbiology
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- Cefas (Centre
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Environment,
Fisheries and
Aquaculture
Science)

Access to resources – 7. Depuration

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Bivalve depuration: fundamental and practical aspects





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

Andrew Younger -Cefas (Centre for Environment, Fisheries and Aquaculture Science)



Principal Scientist -Shellfish Hygiene

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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



Bivalve depuration: fundamental and practical aspects (fao.org)

Access to resources 8. Animal health methods – diseases likely to affect

bivalve molluscs Aquatic Animal Health - Cefas (Centre for Environment, Fisheries and Aquaculture Science)



Collaborating Centre for Emerging Aquatic Animal Diseases





Reference Centre for Antimicrobial Resistance (AMR)





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

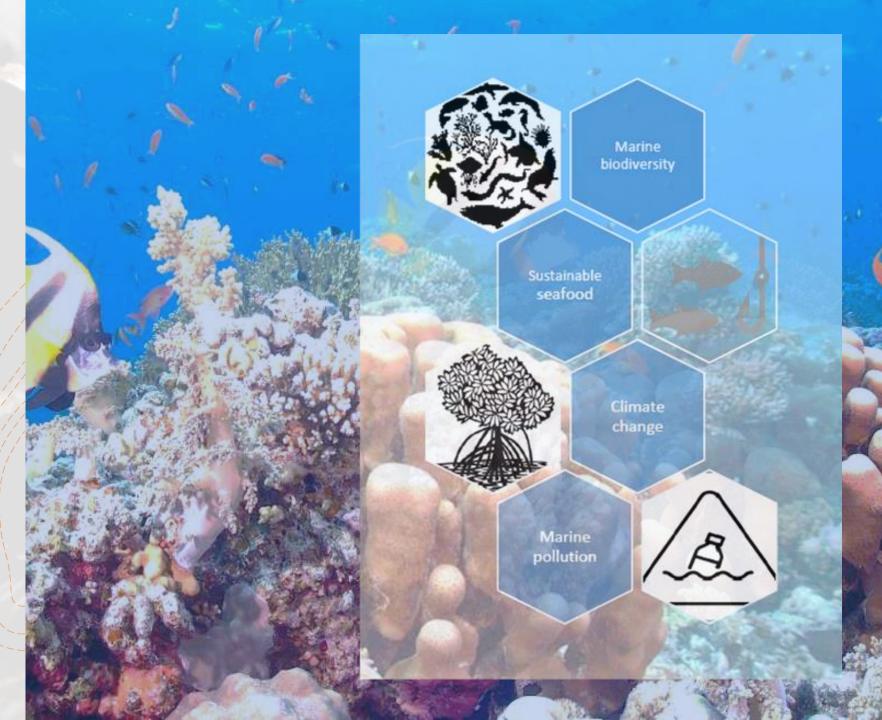
Enabling more focused activity in target countries

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

