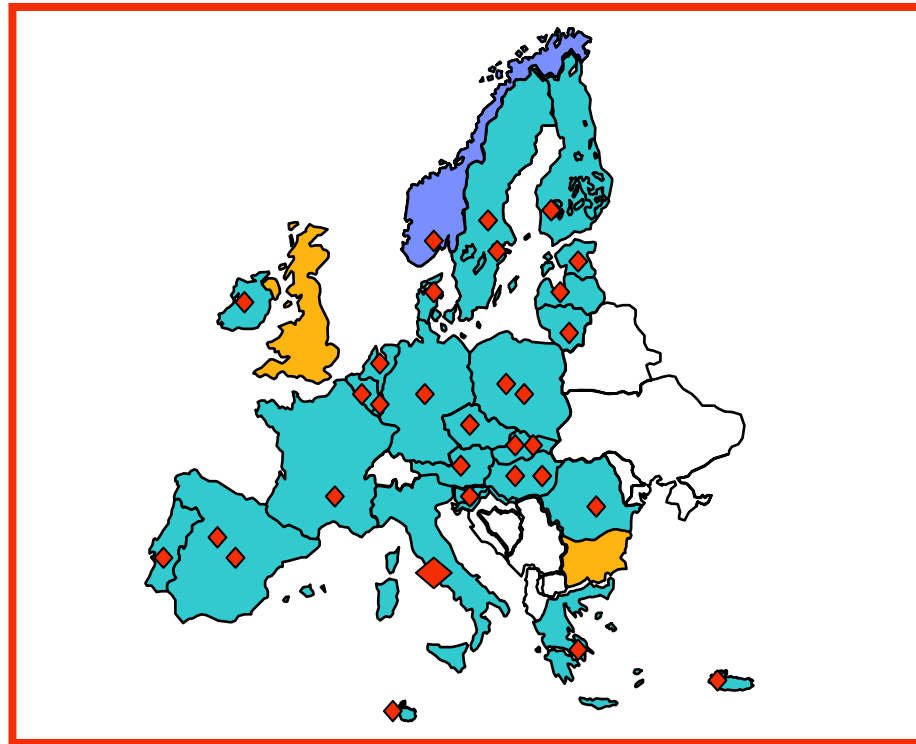




Summary of the Workshop



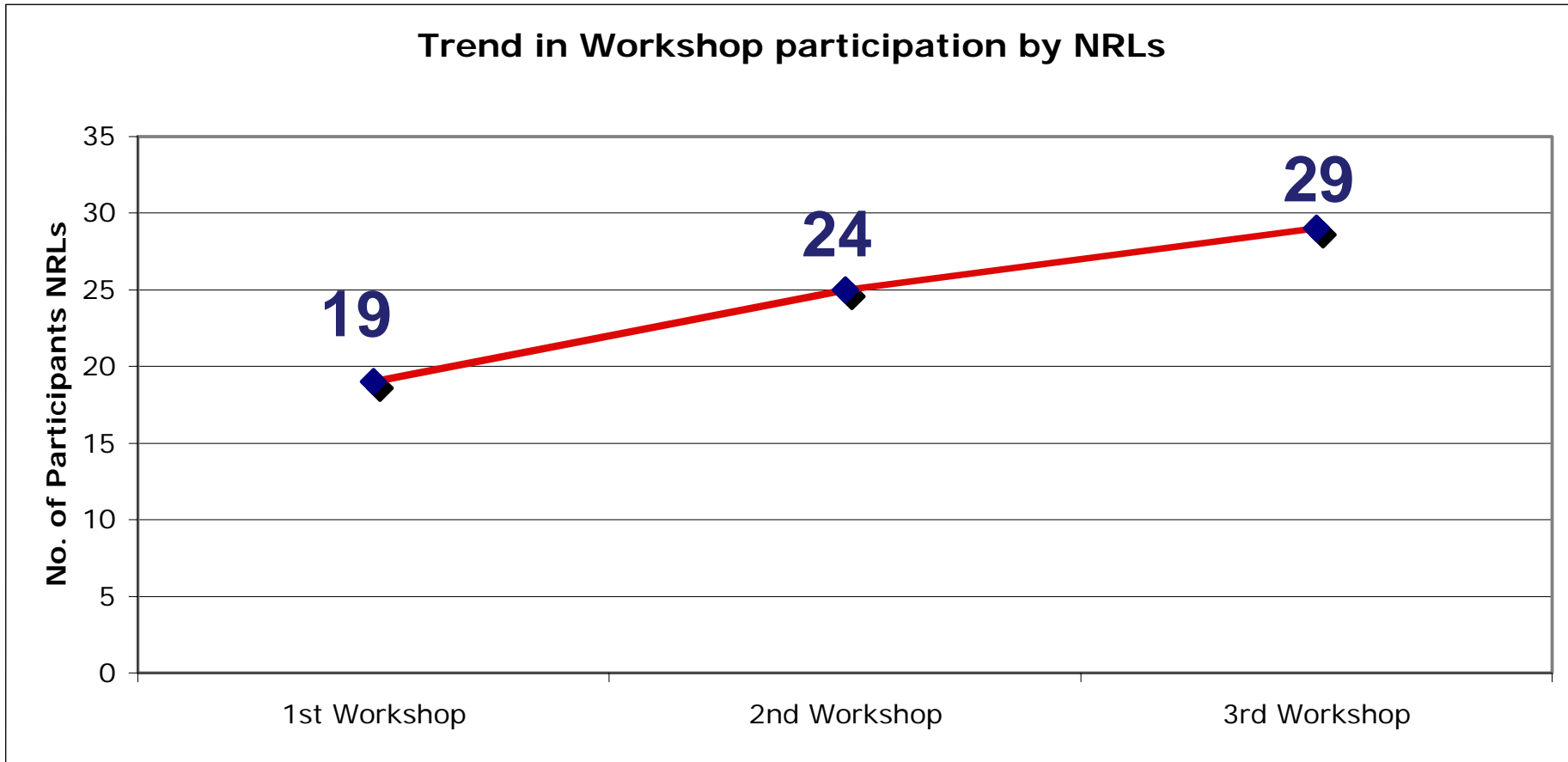
Aim of the Annual Workshops



**To establish and consolidate the
Team of EU Reference Laboratories**

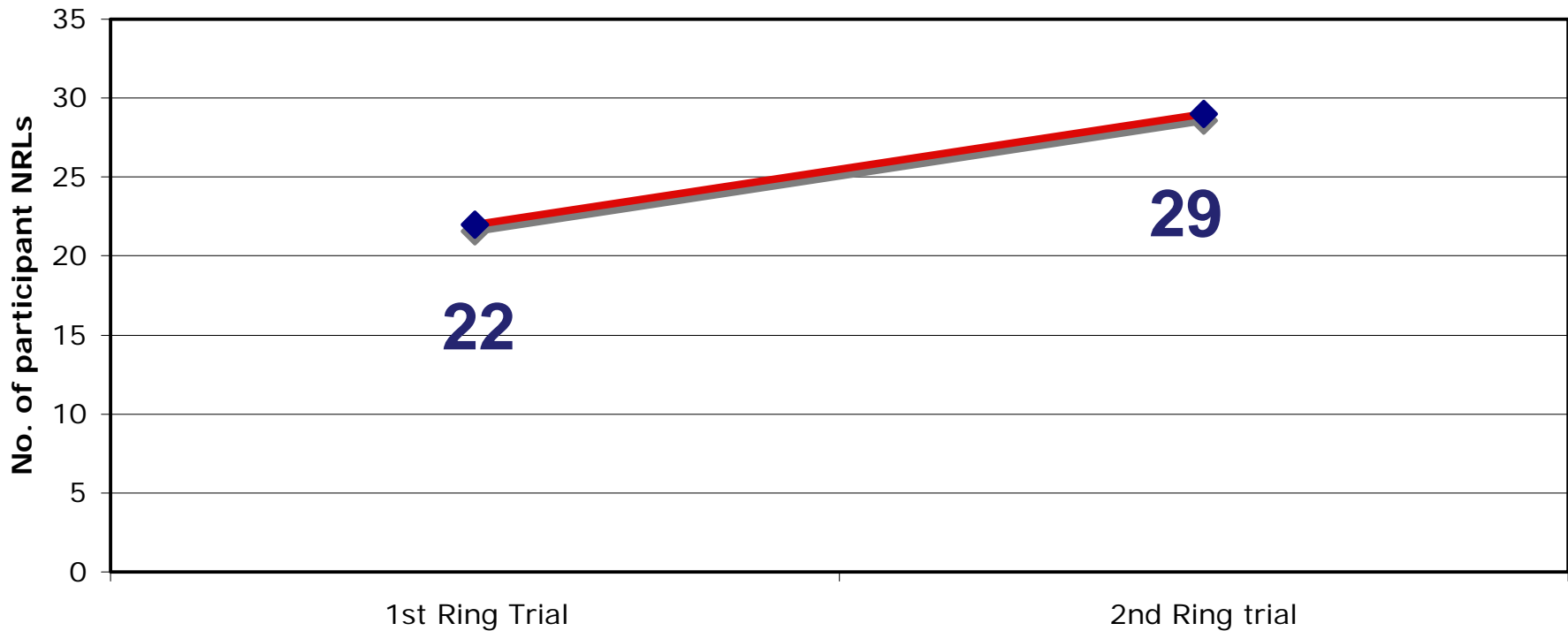
NRLs attending the Annual Workshops

Trend in Workshop participation by NRLs



NRLs participating in the Ring Trials

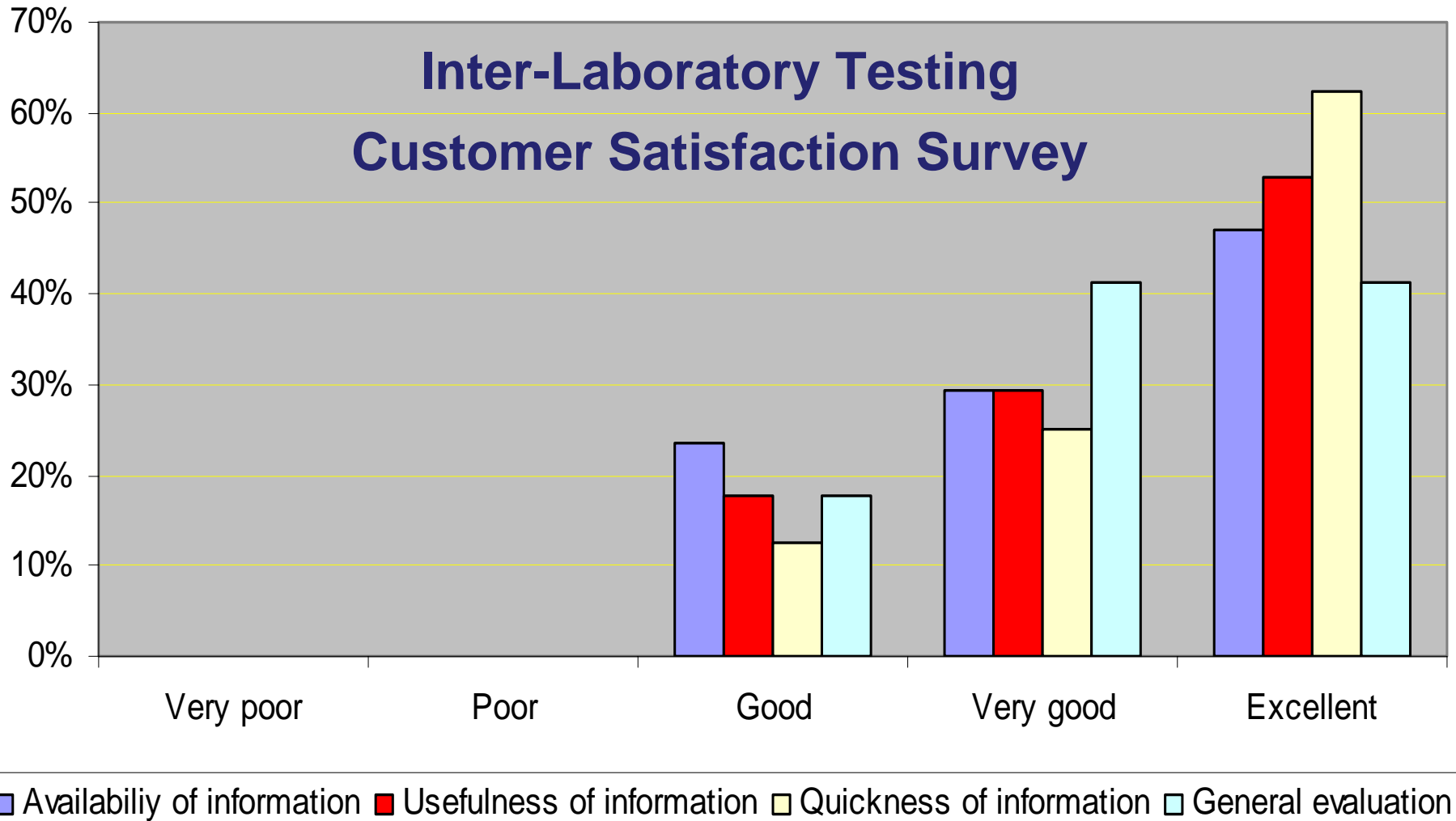
Trend in Ring Trial participation by NRLs



NRL Satisfaction Survey, by the ISS QA Unit

Compliance	
Number of Questionnaires sent	27
Number of Answers	17
% of Answers	63%

Inter-Laboratory Testing Customer Satisfaction Survey



VTEC infections in Europe



- **Foodborne and Waterborne Diseases (FWD) Network**
- **Pulse-net Europe**
- **The EQA programs within the FWD**
- **Harmonization of typing schemes between MED and VET laboratories**

Monitoring of verotoxigenic *Escherichia coli* (VTEC) and identification of human pathogenic VTEC types¹

Scientific Opinion of the Panel on Biological Hazards

(Question No EFSA-Q-2007-036)

Adopted on 18 October 2007

RECOMMENDATIONS

Strains and/or serotypes of VTEC pathogenic to humans

1. It is recommended that all MS use harmonised methods to define VTEC seropathotypes from human and non-human sources to allow more effective monitoring by comparison of isolates from food and animals with those from humans. This should be supported through a consensus discussion involving the Community Reference Laboratory (CRL) for VTEC and other relevant reference laboratories.

2nd Annual workshop: Conclusions on VTEC typing

- Importance of the **virulence gene array** of the strains (**“virulotyping”**)
- Virulence profiles can predict the “level of the hazard” represented by a strain (**risk analysis**)
- Some virulence profiles can be a **specific target** when analyzing food or animals

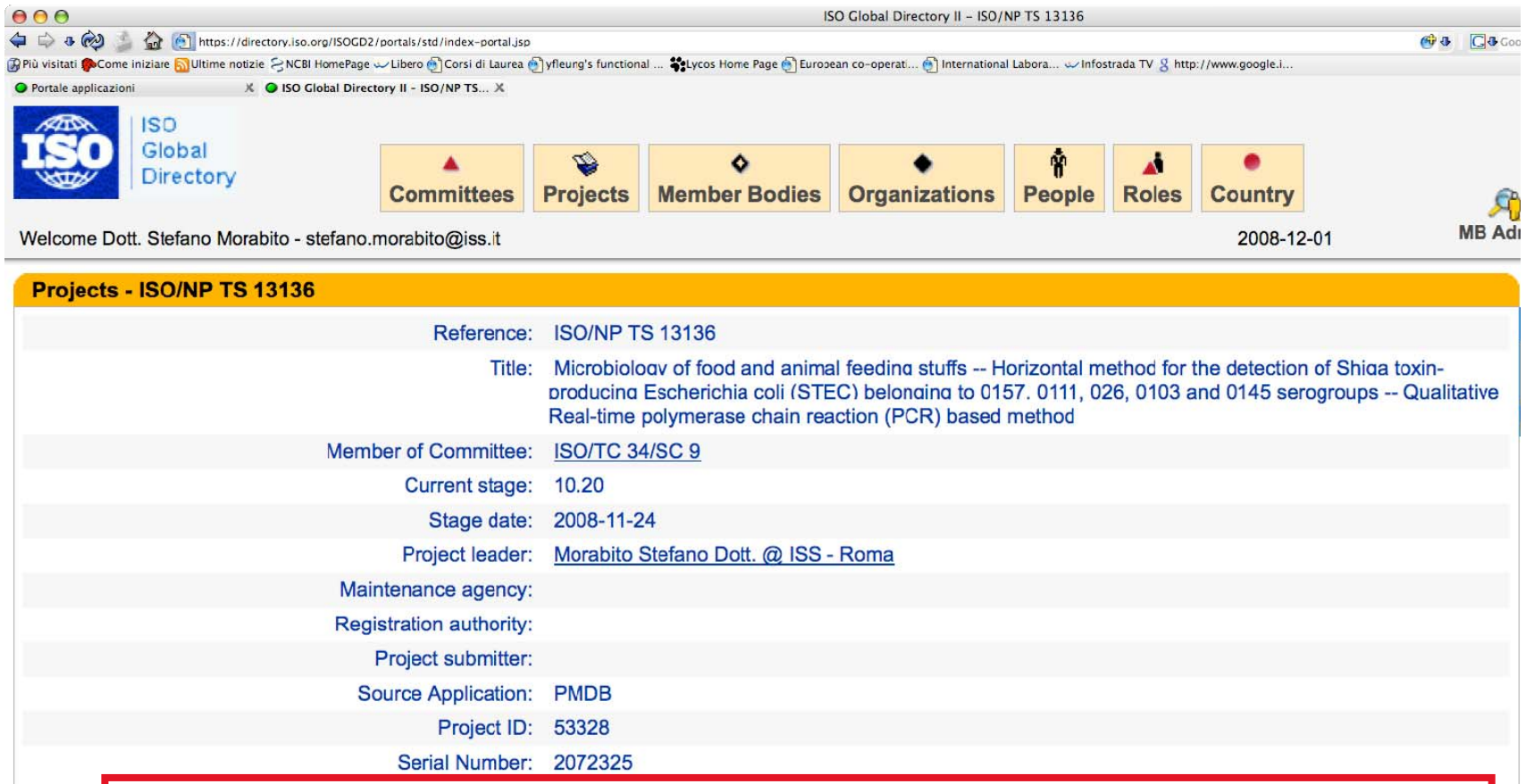
Food safety microbiologic criteria may depend on the “type” of VTEC ?

2008-09 - Working group on:

**Monitoring of verotoxigenic *Escherichia coli*
(VTEC) in animals and food**

Monitoring program targeting **specific
sero-patho-types of VTEC**

ISO draft TS for STEC



The screenshot shows a web browser window with the URL <https://directory.iso.org/ISOGD2/portals/std/index-portal.jsp>. The page title is "ISO Global Directory II - ISO/NTS 13136". The navigation menu includes "Committees", "Projects", "Member Bodies", "Organizations", "People", "Roles", and "Country". The main content area displays the following information for project ISO/NTS 13136:

Reference:	ISO/NTS 13136
Title:	Microbioloav of food and animal feedina stuffs -- Horizontal method for the detection of Shiaa toxin-producinga Escherichia coli (STEC) belongaina to 0157. 0111, 026, 0103 and 0145 serogroups -- Qualitative Real-time polymerase chain reaction (PCR) based method
Member of Committee:	ISO/TC 34/SC 9
Current stage:	10.20
Stage date:	2008-11-24
Project leader:	Morabito Stefano Dott. @ ISS - Roma
Maintenance agency:	
Registration authority:	
Project submitter:	
Source Application:	PMDB
Project ID:	53328
Serial Number:	2072325

Detection method targeted on **specific sero-patho-types** of VTEC

VTEC detection: standardization of methods

Call for tenders

**“METHODS OF ANALYSIS OF FOODSTUFFS
CONCERNING FOOD HYGIENE”**

(Mandate for standardization M/381 addressed to CEN)

Project Title

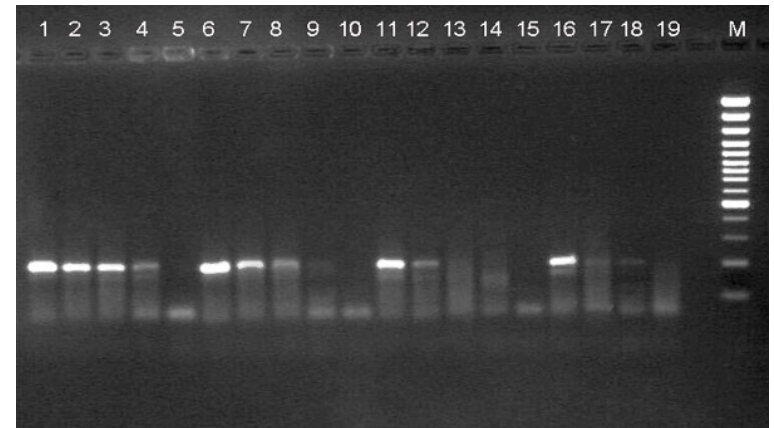
Validation and revision study of the standard horizontal method for the detection of *Escherichia coli* O157 in food and feeding stuffs ISO 16654

- Coordinated by CRL
- 13 NRLs involved in the study

2009 ?

Ring Trial 2008

Implementation of the capacity building program on strain typing (serotyping and virulotyping)



Ring Trial 2009

Monitoring plan of VTEC in animals and food

- Published in 2009 ?
- Performed in 2010 ?



- Detection of VTEC O157 (and non-O157 ?) in cattle feces according to EFSA protocols
- Joint EQA test with ECDC-FWD network

Other activities 2009

- VTEC microbiologic Data Base, according to EFSA monitoring plan and harmonized with the ECDC human Data Base
- Phagetyping of *E.coli* O157 at CRL
- Assistance to NRLs:
 - provision of methods, standard operating procedures, reference strains
 - short visits of NRL staff for individual training