

Ministry of Health & Social Solidarity

Hellenic Center for Diseases control &
Prevention (H.C.D.C.P.)

Central Public Health Laboratory

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GREECE



Central Public Health Laboratory

Official Laboratory of Food and Water
Microbiology

Section: Laboratory of Food Microbiology

Accredited according to EN ISO 17025:2005
by ESYD (Hellenic Accreditation System S.A.)

Laboratory of Food Microbiology

- Accreditation obtained for testing in food:
 - **Detection and enumeration of indicative bacteria:**
 - Total coliforms ISO 4832:1991
 - E. coli β -glucoronidase positive ISO 16649-2:2001
 - Enterobacteriaceae ISO 21528-2

Laboratory of Food Microbiology (cont.)

- **Detection and enumeration of pathogenic bacteria:**
 - Salmonella spp EN ISO 6579:2003 / TC1:2004
 - Listeria monocytogenes
 - EN ISO 11290-1:1996 Amed 1:2004
 - EN ISO 11290-2:1998 Amed 1:2004
 - E. coli O157 EN ISO 16654:2001
 - Clostridium perfringens ISO 7937:2004 (not accred.)
 - Coagulase positive staphylococci ISO 6888-1:1999/A1:2004
 - Staphylococcal enterotoxins: Vidas Staph enterotoxin II (not accred.)

Laboratory of Food Microbiology (cont.)

- Participation in interlaboratory proficiency tests organised by Quality Management Ltd UK
- NRL for *E. coli* O157 nominated from April 2007
- Staff
 - 1 bacteriologist
 - 2 technicians

NRL E. coli

➤ Main activities

- Detection of E. coli O157 from food (mainly samples of market) according EN ISO 16654: 2001 (immunomagnetic separation)
 - Enrichment Mtsb+N
 - Separation concentration Dynabeads anti-E. coli O157
 - Isolation CT-SMAC, SMAC
 - Confirmation: biochemical: indole formation
 - Serological identification: E. coli O157 antiserum or oxoid latex agglutination test
- Typisation of E. coli O157
- Participation in outbreak investigations

NRL E. coli

Plans for the future:

- To implement the methods and the procedures required to fulfill the NRL function eg:
 - To develop methods for the identification and characterization of VTEC strains, serotyping etc
 - Participation in monitoring activities about all VTEC

To carry out our plans we hope to CRL help.

Thank you for your attention!

