0111 E. coli 0157 - IMS "SEIKEN

PRINCIPLE

Three separate immunomagnetic separation (IMS) reagents which use magnetic beads individually sensitized with a highly specific monoclonal (O157) or polyclonal (O111 and O26) antibodies to the O LPS antigen for concentrating E. coli O157, E. coli O111, and E. coli O26 before selective culture/ plating, respectively.

FEATURES

Improves efficiency of isolation and sensitivity by 100-fold compared to direct plating.

PROCEDURES

Food sample

Enrichment culture

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1 Concentration of E. coli O157 (procedure is the same for E. coli O111 and E. coli O26)

- 1 1. Pipette 1 ml of culture broth into a microcentrifuge tube.
- 2. Add one drop of E. coli O157-IMS "SEIKEN" (or E. coli O111-IMS "SEIKEN", etc.) 1
- ↓ 3. Mix well and let sit for 30 minutes, mixing occasionally.
- 4. Collect beads with magnetic rack.
- 1 5. Discard the supernatant.
- 6. Add 1 ml of sterile saline and mix well. Ţ
- 7. Repeat steps 4 5.
- 8. Add 0.1 ml of sterilie saline and mix well.





IMS beads

Growth on TC-SMAC - Inoculate 50 uL of the above suspension onto TC-SMAC Growth pattern on TC-SMAC (E. coli O157)



Direct plating

Concentration by E. coli O157-IMS

Slide Latex (or antisera) agglutination of E. coli O157 (E. coli O111 or E. coli O26)