

Escherichia coli O111 concentrating reagents by immune magnetic beads

***E. coli* O111 IMS “SEIKEN”**

This reagent consists of immune magnetic beads sensitized with a polyclonal antibody against *E. coli* O111. The reagent is used for concentrating *E. coli* O111 from culture medium as an aid in making isolation of *E. coli* O111 on selective agar medium more efficient.

【Features】

To concentrate *E. coli* O111 from growth culture efficiently with specific rabbit polyclonal antibody.

【Contents】

E. coli O111 IMS “SEIKEN” 1.3 mL × 1 vial

The suspension of immune magnetic beads sensitized with rabbit polyclonal antibody against *E. coli* O111.

【Intend to use】

To concentrate *E. coli* O111 from food specimen.

【Procedures】

1. Instruments and reagents for the tests

Instruments for the tests, but not provided.

Pipette, 1.5mL micro-centrifuge tube

Instruments for the tests, separately provided.

Magnetic rack

Reagents: *E. coli* O111 IMS “SEIKEN”

Sterilized PBS buffer or saline (not provided)

2. Preparation of specimen

Homogenate culture (enrichment culture) is used as specimen.

2. Performance

1) Add 1mL of culture into a micro centrifuge tube.

2) Add one drop (25uL approximately) of *E. coli* O111 IMS into the tube.

3) Mix well and leave at the room temperature for 30 minutes, mixing at 10 minutes

intervals.

- 4) Place the tube for 5 minutes on magnetic rack to collect magnetic beads. Rotate the stand gently a few times to make the beads collect at the one point of the tube.
- 5) Carefully remove the supernatant with a micropipette. Avoid disturbing the magnetic beads.
- 6) Remove the tube from magnetic rack and add 1mL of sterile PBS buffer or sterile physiological saline, and resuspend the beads.
- 7) Wash the beads by repeating the steps 5) and 6) above.
- 8) Add 0.1mL of sterile PBS buffer or sterile physiological saline, and resuspend the beads.

【Notes for handling】

1. General precautions

- 1) After incubation for enrichment, large amounts of *E. coli* O111 are in the specimens. Take care of exposure and infection at the time of handling steps for concentration.

This reagent can concentrate *E. coli* O111 efficiently, but contaminating bacteria may stick to the inside of the tube. Use some isolation medium parallel after collecting and recovering step.

- 2) The sensitive detection of *E. coli* O111 depends on their ability to grow, whether the cells are stressed the extent to which other bacteria are present at the time of culturing.

2. Cautions in use and handling

- 1) Mix the magnetic beads reagent well to form a homogeneous suspension before use. When adding the magnetic bead reagent, hold the reagent vial in a vertical position.
- 2) Do not freeze the reagents as this may lead to poor reagent performance.
- 3) Allow the reagents to stand at room temperature for at least 30 minutes before use.
- 4) Do not mix or interchange reagents from different lots.
- 5) Use the reagent according to the concentration method only as indicated in this insert.
- 6) Do not use reagent vial for other purposes.
- 7) The reagent is not for intended for uses other than described in this insert.

3. Cautions for waste

- 1) This reagent contains 0.1 w/v % of sodium azide. Sodium azide may produce explosive heavy metal azides by reaction with lead or coppers. The reagent should be

disposed off with a large amount of water.

2) Materials and equipment used in this test should be sterilized by one of the following methods, and disposed of according to the waste-related laws.

- ① Soaking in 0.1% sodium hypochlorite solution (chloride content about 1000ppm) for more than 1 hour.
- ② Soaking by 2% glutaldehyde solution (final content) for more than 1 hour.
- ③ Autoclaving them at 121°C for more than 20 minutes.

【Storage and expiration】

Store the reagent at 2~10°C, up to expiration date on the label.

【Package】

E. coli O111 IMS “SEIKEN” 1.3mL × 1 vial (Product code: xxxxxx)

Also available!

***E. coli* O157-F 20 tests Code: 230614**

***E. coli* O157 IMS 2.5 mL × 1 vial Code: 240071**

Magnetic rack Code: 240088