

BUG TRAP

Bacteria isolation kit

Magnetic Bead Separator
- available from
Genpoint AS and
BILATEC AG

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v.13

100 isolations

Cat. No: BT1-100

Contents:

4 tubes with blue lid: 1.0 ml of Bacteria Binding Beads
2 bottle with 38 ml B&W Buffer

Not supplied with the kit: magnetic separator

Storage:

The contents of this kit should be stored at 4°C.

Preparations and considerations

- Allow the contents of the kit come to room temperature before use.
- Resuspend the beads before use.

Troubleshooting

Yield

- The sample may be rotated or mixed during the incubation (step 2).
- The interaction time between the bacteria and the beads may be increased (step 2).
- The amount of beads may be increased.
- The volume of sample may be increased when the density of bacteria is expected to be low.

When culturing

- Include 15 mM CaCl₂ in enrichment media for culturing of Gram-positive strains.
- Include 10 mM MgCl₂ in enrichment media for culturing of Gram-negative strains.

Complex samples

- An extra washing step may be performed to remove excess matrix material. Repeat step 4 and 5.

Extraction of bacteria:

1. Add 40 µl (7,5 mg/ml) Bacteria Binding Beads and 500 µl B&W Buffer to a 1.5 ml microcentrifuge tube.
2. Add 100 µl sample, mix by pipetting gently and leave the tube at room temperature for 15 min.
3. Place the tube in a magnetic separator. Allow the bacteria/bead complex to move to the side of the tube. Carefully discard the supernatant by pipetting.
4. Separate the magnet from the tube. Add 250 µl B&W Buffer. Distribute the bacteria/bead complex evenly in the buffer by shaking the tube gently.
5. Recombine the magnet and the tube. When the supernatant has cleared, carefully pipette off and discard the supernatant.
6. Resuspend the bead/bacteria complex in sdH₂O.