

Antibody Datasheet

Name: Goat Anti-Escherichia coli O157:H7 Antibody, Molecular Grade

Product Code: 5310-0327

Batch #:

Date of Manufacture:

Product Description: Affinity purified polyclonal antibody to E. coli O157:H7 Molecular Grade is isolated from a serum pool of goats immunized with heat-killed whole cells of E. coli serotype O157:H7 (BacTrace®). The antibody is highly specific for E. coli O157:H7 and has been qualified for use in downstream applications requiring nucleic acid amplification.

Amount: 1.0 mg (as determined by UV absorbance at 280 nm)

Presentation: Lyophilized

Rehydration: Two methods for rehydration and storage are recommended to meet most needs, Procedure A, using 50% glycerol, is preferred. It eliminates freezing at -20 °C and is an effective biological inhibitor. At a working dilution, the level of glycerol is too small to affect most assays.

Procedure A: 50% Glycerol

- Solution Preparation: Mix 1 part glycerol with 1 part reagent quality water.
- Rehydration: Transfer 1 mL of the 50% glycerol solution to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Antibody concentration will then be 1.0 mg/mL.
- Storage: The rehydrated product is stable for a minimum of 1 year at 2-8 °C.

Procedure B: Acetic Acid/Bi-Carbonate

- Solution Preparation: Prepare immediately before use:
 - M Acetic Acid Solution: Mix 25 µL of Glacial Acetic Acid and 40 mL reagent quality water.
- 0.177M Carbonate-Bicarbonate Solution: Dissolve 1.09 g of Na₂CO₃ and 0.63 g of NaHCO₃, in 100 mL reagent quality water.
- Rehydration: Add 0.1 mL of 0.01M Acetic Acid to 1 mg of antibody. Rotate vial until totally dissolved. Add 0.1 mL of the Carbonate-Bicarbonate Solution and rapidly mix to obtain a clear or opalescent solution. Heat at 37°C for 30 minutes and allow to slowly cool to room temperature. Final concentration is 5.0 mg/mL.
- Storage: This product may be stored for up to one week at 2-8°C; thereafter, it should be stored at -20 °C. At -20 °C, product is stable for a minimum of 1 year.

Stabilizer: No stabilizers added.

Preservative: No preservatives added. Non-sterile.

Immunogen: Different strains of heat-killed whole cells of Listeria.

Purification: Affinity purified

Specificity: This product is designed to react specifically with E. coli O157:H7 and shows minimal cross-reactivity to non-pathogenic and non-O157 strains of E.coli. No significant amplification of bacterial DNA is observed in quantitative PCR reactions. Product is tested via ELISA techniques as applicable.

Cross-Reactivity: Cross-reactivity against other E.coli strains has been minimized through adsorption using antigens from non-O157:H7 strains of E. coli.

Application Notes: Optimal working concentrations should be determined experimentally. Prepare working dilution in PBS or other buffer. Dilution is not recommended for long-term storage. Suggested dilutions are listed below. In many cases, the antibody may be diluted further than indicated:

Capture Antibody: 10 µg/mL

Primary Antibody: 1-2 µg/mL

Usage Guidelines

Storage: +4°C

Storage Guidelines: Store +4°C until rehydrated. Stable for a minimum of 1 year when stored at +4°C. Avoid multiple freeze-thaw cycles.

X

QC

X

QA

Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.

