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Certificate of Analysis and Data Sheet

# Rabbit Antibody to Escherichia coli (E. coli) (O and K antigenic serotypes) Horseradish Peroxidase conjugated

| Catalog No. | Target Species | Isotype |
|---|---|---|
| MD-14-1093 | E. coli | IgG |

## Preparation

**Immunogen:** Mixture of E. coli serotypes
**Purification:** Protein A chromatography Covalently coupled to highly purified preparation of Horseradish peroxidase (RZ>3). Care is taken to ensure adequate conjugation while preserving maximum enzyme activity. Free enzyme is not present.

## Formulation

**Product Type:** Polyclonal Antibody
**Product Form:** HRP, Liquid
**Buffer:** PBS, containing 10mg/ml BSA
**Preservative Stabilizers:** 0.002% Thimerosal
**Approx. Protein Concentration:** 1-2mg/ml (OD280nm, $E^{0.1\%} = 1.4$)

## Specificity

Many “O” and “K” antigenic serotypes of Escherichia coli. Even labile ones will react. Antiserum is unabsorbed and will react with related Enterobacteriaceae. Will remove E. coli proteins from recombinant preparations.

## Storage

Short-term (up to 6 months) store at 2-8°C under subdued light. Long term, aliquot and store at –20°C. Avoid multiple freeze/thaw cycles.
**Warning: use of sodium azide as a preservative will substantially inhibit the enzyme activity of horseradish peroxidase.**

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## *Applications*

**Table Summary of antibody applications and working conditions**

| Options / Functions | YES | NO | Not determined | Recommended Work dilution or concentration |
|---|---|---|---|---|
| ELISA | • | | | |
| Western Blotting | | | • | |

**Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.**

## *References*

Salminen, A., et al., (2007), “Inhibition of P-fimbriated Escherichia coli adhesion by multivalent galabiose derivatives studied by a live-bacteria application of surface plasmon resonance”, Journal of Antimicrobial Chemotherapy, 60: 495-501