Section 1. Chemical Product and Company Identification

**Product No.**
TD0700

**Trade name**
E. COLI ST EIA

**Manufacturer**
Oxoid Limited
Wade Road
Basingstoke
Hants RG24 8PW
ENGLAND
Tel: + 44 (0)1256 841144
Fax: + 44 (0)1256 463388

**Supplier**
Oxoid Limited
Wade Road
Basingstoke
Hants RG24 8PW
ENGLAND
Tel: + 44 (0)1256 841144
Fax: + 44 (0)1256 463388

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Section 2. Hazards Identification

**Most Important Hazards**

TD706: Harmful by inhalation and in contact with skin. Toxic if swallowed. Irritating to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risks of irreversible effects.

TD707: Irritating to eyes and skin.

TD709: Irritating to eyes and skin.

For in vitro diagnostic use only. Specimen materials may contain pathogenic organisms, handle with the appropriate precautions.

**Human health hazards - Eyes**

TD706: Dust will cause conjunctival irritation.

TD707: Liquid or Mist will cause conjunctival irritation and possibly corneal damage.

TD709: Liquid will cause conjunctival irritation and possibly corneal damage.

**Human health hazards - Skin**

TD706: Prolonged or repeated contact may cause itching and soreness and possible sensitisation.

TD707: Irritating to skin.

TD709: Severely irritating to the skin. Repeated and/or prolonged contact may lead to dermatitis.

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Section 3. Composition, Information on Ingredients

**Preparation - Hazardous ingredients ( Europe )**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Concentration</th>
<th>Classification</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD706 Substrate A ( o-phenylenediamine)</td>
<td>95-54-5</td>
<td>100% w/w</td>
<td>Xn - Harmful.</td>
<td>*** Revised **R20/21- Harmful by inhalation and in contact with skin. R25- Toxic if swallowed.</td>
</tr>
<tr>
<td></td>
<td>202-430-6</td>
<td></td>
<td>T - Toxic.</td>
<td>R36- Irritating to eyes. R43- May cause sensitization by skin contact.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Xi - Irritant. Mutagen, Category 3.</td>
<td>R68- Possible risk of irreversible effects.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N - Dangerous to the Environment.</td>
<td>R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</td>
</tr>
<tr>
<td>TD707 Substrate B - Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>12% w/w</td>
<td>Xi - Irritant.</td>
<td><strong>R56/57- Irritating to eyes and skin.</strong></td>
</tr>
<tr>
<td></td>
<td>231-765-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**E. COLI ST EIA**

**TD709 Stopping Reagent (1.5N Sulphuric Acid)** 7664-93-9 231-639-5 14.7% w/w Xi - Irritant. R36/38- Irritating to eyes and skin.

**Section 4. First Aid Measures**

- **First Aid - Eyes**
  Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists.

- **First Aid - Skin**
  Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Obtain medical attention if soreness or redness persists.

- **First Aid - Ingestion**
  Have victim drink 1-3 glasses of water to dilute stomach contents.

- **First Aid - Inhalation**
  Remove to fresh air.

**Section 5. Fire Fighting Measures**

- **Extinguishing Media - Suitable**
  Use dry chemicals, CO2, alcohol foam or water spray.

**Section 6. Accidental Release Measures**

- **Personal Precautions**
  Wear appropriate protective clothing.

- **Spill**
  Wipe up with a damp cloth. Finally flush area with plenty of water.

**Section 7. Handling and Storage**

- **Handling**
  For in vitro diagnostic use only. Avoid contact with eyes, skin and clothing. Standard laboratory guidelines for handling infectious agents and all chemical reagents supplied with the kit should be observed throughout all procedures. Patient specimens may contain infectious agents and should be handled and disposed of as potential biohazards.

- **Storage**
  Storage temperature should be controlled to between 2 and 8 °C. Under these conditions the reagents will retain their reactivity until the date shown on the kit box. After dilution, the conjugate will retain its activity for 3 months and the wash buffer for 1 month when stored at 2-8 °C. The substrate will only remain active for up to one hour after its preparation and should be discarded after use.

**Section 8. Exposure Controls, Personal Protection**

- **Occupational Exposure Limits (Preparation) - Europe**
  - o-phenylenediamine: An exposure limit of 0.1mg/m3 8h TWA is recommended.
  - Hydrogen Peroxide:
    - UK EH40: OES 1ppm (1.4mg/m3) 8-hour TWA.
    - UK EH40: OES 2ppm (2.8mg/m3) 15min STEL.
  - Sulphuric Acid: UK EH40: OES 1mg/m3 8hr TWA.

- **Engineering measures**
  TD706: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

- **Protective Measures - Respiratory**
  A respirator is not needed under normal and intended conditions of product use.

- **Protective Measures - Hands**
  Disposable vinyl gloves.

- **Protective Measures - Eyes**
  Recommended: Safety glasses or chemical goggles to EN166, 167 and 168.

- **Protective Measures - Body**
  Lab coat.
Section 9. Physical and Chemical Properties

Physical state

TD701 ST-coated microtitre well-strips. 6 strips, each consisting of 16 wells held in a transit frame. Each well is coated with synthetic enterotoxin and contains a stabiliser.

TD702 Positive control. 1.5ml culture fluid of ST positive strain.

TD703 Negative control. 1.5ml culture fluid of ST negative strain.

TD704 Antibody-enzyme conjugate. 0.1ml anti-ST monoclonal antibody labelled with horseradish peroxidase (supplied as a concentrate).

TD705 Diluent for antibody-enzyme conjugate. 1.5ml tris-HCl buffer containing bovine serum albumin.

TD706 Substrate A. 6 vials of dried o-phenylenediamine (each for the preparation of 4ml of substrate)

TD707 Substrate B. 30ml Hydrogen peroxide solution.

TD708 Wash buffer concentrate. 60ml phosphate buffered saline containing Tween 20.

TD709 Stopping reagent. 12ml 1.5N Sulphuric acid.

TD710 Holding frame

Section 10. Stability and Reactivity

Stability

Stable under normal conditions.

Do not mix components from different lots.

Do not use after stated expiry date.

Section 11. Toxicological Information

Acute toxicity

Toxic if swallowed.

Section 12. Ecological Information

Ecotoxicity

No relevant studies identified.

Section 13. Disposal Considerations

Disposal considerations

The microtitre strips should be removed from the frame after use and, together with centrifuge tubes, membrane filters, microtitre plate and lid, pipette tips and paper towels, should be sterilised by autoclaving at 121 C or disinfected before disposal. Dispose of control toxins and culture extracts in hypochlorite solution (>1.3% w/v).

Container information

Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste.

Section 14. Transport Information

UN : UN number

Not classified.

Section 15. Regulatory Information

Label Requirements

Toxic, Dangerous for the environment
**SAFETY DATA SHEET**

**E. COLI ST EIA**

**Date of issue - 20/08/2009.**  

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### Risk Phrases

*** Revised ***  
TD0706: R20/21- Harmful by inhalation and in contact with skin. R25- Toxic if swallowed. R36- Irritating to eyes. R40- Limited evidence of a carcinogenic effect. R43- May cause sensitization by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R68- Possible risk of irreversible effects.  
TD707: R36/38- Irritating to eyes and skin.  
TD709: R36/38- Irritating to eyes and skin.

### Safety Phrases

TD0706: S28- After contact with skin, wash immediately with plenty of soap and water. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
TD706: S28, S36/37, S45, S53.

### EC Number

TD706: 202-430-6

### EC Classification

TD707: Xi - Irritant.  
TD709: Xi - Irritant.

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### Section 16. Other Information

**MSDS first issued**  
21/03/2002

**MSDS data revised**  
20/08/2009

**USES**  
A test kit for the detection of heat-stable E. coli enterotoxin (ST) in culture filtrates or supernatants by competitive enzyme immunoassay (EIA).

**Revisions Highlighted**  
Section 3. Composition, Information on Ingredients  
Section 15. Regulatory Information

**Notes**  
Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.