

## MICROGEN BIOPRODUCTS LTD

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# MICROGEN<sup>®</sup> E. COLI 0157 RAPID TEST

A RAPID TEST FOR THE CONFIRMATORY IDENTIFICATION OF E. COLI SEROGROUP 0157  
CULTURED ON SELECTIVE SOLID MEDIA

BASED ON PROVEN AND RELIABLE LATEX AGGLUTINATION TECHNOLOGY, THE  
MICROGEN BIOPRODUCTS E. COLI 0157 CULTURE CONFIRMATION ASSAY OFFER:

RESULTS IN TWO MINUTES

INCREASED EFFICIENCY

HIGH SENSITIVITY

HIGH SPECIFICITY

ACCURATE & RELIABLE RESULTS

**Protecting Food and Health**

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Much of the rapidly expanding interest in *E. coli* 0157 results from the increasing capability to isolate and identify this organism. *E. coli* 0157 is a verotoxin (VT) producing strain responsible for Haemorrhagic colitis (HC), Haemolytic Uraemic Syndrome (HUS) and community acquired diarrhoea.

Until recently it was thought that *E. coli* 0157 was only isolated from samples of bloody diarrhoea as this is classically seen with verotoxin producing strains. However, it is now increasingly being isolated from non-bloody specimens. Sorbitol MacConkey medium is the recommended screening agar for *E. coli* 0157, but, although this technique shows 100% sensitivity it is only 85% specific.

*E. coli* 0157 does not ferment sorbitol. However, other sorbitol negative Gram negative rods also grow on sorbitol MacConkey agar. As a result of this, a specific rapid identification method is required.

Microgen® *E. coli* 0157 is an easy-to-use one step, latex identification kit which gives results in under two minutes and specifically identifies *E. coli* 0157 directly from the selective plate, even in mixed culture.

The conventional method for identification of *E. coli* 0157:H7 utilises specific antisera in a standard agglutination test. However, this method and other commercially available latex tests have been shown to suffer from cross reactions with other enteric organisms such as *E. hermannii*, which antigenically and biochemically resembles *E. coli* 0157, resulting in false positive results.

Microgen® *E. coli* 0157 contains a test latex which has been sensitised with *E. coli* 0157 specific antibodies, that are prepared by absorption with potentially cross reacting strains.

Microgen® *E. coli* 0157 has demonstrated no cross reactions when tested against a panel of 161 *E. coli* 0157 'O' serotypes and 56 'H' serotypes, and shows strong specific agglutination.

Microgen® *E. coli* 0157 gives strong and specific results within two minutes and comes complete with a control latex which can be easily compared with test results to confirm non-specific reactions.

Microgen *E. coli* 0157 rapid test is part of a range of rapid tests which includes;

Microgen <i>C. difficile</i>	(M41CE)
Microgen Salmonella	(M42CE)
Microgen Staph	(M43CE & M433CE)
Microgen <i>E. coli</i> 0157	(M44CE)
Microgen Legionella	(M45CE)
Microgen Campylobacter	(M46CE)
Microgen Strep	(M47CE)

All rapid tests use latex agglutination technology.

<b>Code</b>	M44CE
<b>Description</b>	Microgen® <i>E. coli</i> 0157
<b>Size</b>	50 tests
<b>Storage</b>	2 - 8°C