



# Coliscan® Plus Easygel® Guide

Target organisms: *E. coli* and other coliforms

## Colony Colors

- 1 - *E. coli*
  - Ambient light - dark blue/purple
  - UV light - fluorescent zone with dark center
- 2 - Other coliform
  - Ambient light - pale pink/red
  - UV light - invisible to dark zone

## Coliscan® Plus Easygel® Specification Data

<b>Selective For:</b>	<i>E. coli</i> and other coliforms
<b>Description:</b>	Coliscan is a clear medium containing two chromogenic substrates. One is cleaved by the enzyme galactosidase (produced almost exclusively by coliforms) to produce an insoluble pink compound. This causes coliform colonies to be pink/red. The second is cleaved by the enzyme glucuronidase (produced almost exclusively by <i>E. coli</i> ) to produce an insoluble teal compound. Using the two compounds allows easy visual distinction between general coliforms (pink/red colonies) and <i>E. coli</i> (pink + teal = blue/purple colonies). In addition, the glucuronidase cleaves the fluorescent entity which results in a bright blue fluorescence from <i>E. coli</i> colonies lighted by long wave U.V. light.
<b>Composition:</b>	Contains nutrients, inhibitors and chromogenic substrate mix. pH 7.3 ± 0.2
<b>Procedure:</b>	Use standard methodology for product being tested. Incubation time and temperature; 24-48 hrs at 35°C. It is possible to take accurate readings at 24 hours incubation time. Colors will intensify and colony size will be larger at 36-48 hours. The fluorescence of <i>E. coli</i> can generally be detected by 12-15 hr. incubation. Fluorescence may diffuse throughout the plate after 24 hrs making quantification by fluorescence impossible after that initial time period.
<b>Interpretation:</b>	<i>E. coli</i> * colonies will have a dark blue/purple overall colony color and fluoresce. Other coliforms ( <i>Enterobacter</i> , <i>Citrobacter</i> and <i>Klebsiella spp.</i> & others) are pink to red in color. <i>Proteus</i> and <i>Salmonella</i> will generally grow as white colonies. Gram-positive organisms are generally inhibited. An occasional teal colony is indicative of a non-coliform which has the ability to produce glucuronidase but not galactosidase. A few strains of <i>Salmonella</i> and <i>Shigella</i> have this capability.
<b>Storage:</b>	Freeze
<b>Shelf Life:</b>	1 year

### Further information links on our web site:

- FAQ
- Our Methods
- Food Microbiology

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