

Coliscan® Plus Easygel®

Specification Data

Selective For:	<i>E. coli</i> and total coliforms
Description:	Coliscan is a clear medium containing a mix of chromogenic/fluorogenic substrates. Coliforms produce the enzyme galactosidase which causes the formation of an insoluble pink compound which causes coliform colonies to appear pink/red. <i>E. coli</i> produce the enzyme glucuronidase to produce an insoluble teal compound, which combined with the pink/red results in 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.
Composition:	Contains nutrients and chromogenic substrates. pH 7.3 ± 0.2
Procedure:	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. The fluorescence of <i>E. coli</i> can generally be detected by 12-15 hr. incubation. Colors will intensify and colony size will be larger at 36-48 hours. Fluorescence may diffuse throughout the plate after 24 hrs making quantification by fluorescence impossible after that initial time period.
Interpretation:	<i>E. coli</i> * colonies will have a dark blue/purple overall colony color and fluoresce a bright blue under long wave UV light. Other coliforms (<i>Enterobacter</i> , <i>Citrobacter</i> and <i>Klebsiella spp.</i> & others) are not fluorescent and appear pink to red in color. <i>Proteus</i> , <i>Salmonella</i> , and <i>Shigella</i> do not fluoresce and will generally grow as white colonies. Gram-positive organisms are generally inhibited. An occasional fluorescent teal colony is indicative of a non-coliform which has the ability to produce glucuronidase but not galactosidase. A few strains of various coliform bacteria have this capability.
Storage:	Freeze
Shelf Life:	1 year

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