

# Microbial Detection Using Biolog Chromogenic Media

Rainbow® Agars offer a simple, selective and chromogenic medium to help you conveniently detect strains of *E. coli* O157, *Shigella* and *Aeromonas* with results in less than 24 hours.

## RAINBOW AGAR O157

Rainbow Agar O157 has both selective and chromogenic properties that make it particularly useful for detecting and isolating pathogenic *E. coli* strains. The medium contains chromogenic substrates that are specific for two *E. coli*-associated enzymes:  $\beta$ -galactosidase (a blue-black chromogenic substrate) and  $\beta$ -glucuronidase (a red chromogenic substrate). Rainbow Agar O157 is listed in the FDA's Bacteriological Analytical Manual (BAM) as a preferred laboratory procedure for microbiological analysis of foods and cosmetics.



### EXPECTED RESULTS

Organism	Colony Color
<i>E. coli</i> O157:H7	Black or gray
<i>E. coli</i> O157:H7 (glucuronidase+)	Purple-blue
<i>E. coli</i> O26:H11	Purple magenta
<i>E. coli</i> O26:H21	Purple
<i>E. coli</i> O111:H or O111:H8	Violet or gray

## RAINBOW AGAR SHIGELLA / AEROMONAS

Rainbow Agar Shigella/Aeromonas was developed to provide laboratories with a better culture medium for directly isolating pathogenic strains of *Shigella* and *Aeromonas*. The medium is inhibitory to gram-positive bacteria and most non-enteric gram-negative bacteria, but is not toxic to the target species. *Escherichia coli* is significantly inhibited, and colonies that grow are blue.



### EXPECTED RESULTS

Organism	Growth	Colony Color
<i>Shigella sonnei</i>	Good	Orange-red
<i>Shigella flexneri</i>	Good	Orange-red
<i>Shigella boydii</i>	Good	Orange-red
<i>Shigella dysenteriae</i>	Good	Orange-red
<i>Aeromonas hydrophila</i>	Good	Orange-red
<i>Escherichia coli</i>	Partial	Blue

Biolog has a complete range of products for the identification and characterization of aerobic and anaerobic bacteria, yeast and fungi. Please visit our website at [www.biolog.com](http://www.biolog.com) for more information.

FOR RESEARCH USE ONLY.

Not for human *in vitro* diagnostic use

### ORDERING INFORMATION:

Catalog #	Description	Unit Size
80102	Rainbow Agar O157	30 g (25 plates)
80302	Rainbow Agar SHIGELLA/AEROMONAS	71.5g (50 plates)