

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, *Salmonella*, *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 isolating pathogenic *E. coli* strains. The medium contains chromogenic substrates that are specific for two *E. coli*-associated enzymes: β -galactosidase (a blue-black chromogenic substrate) and β -glucuronidase (a red chromogenic substrate). Rainbow Agar O157 is listed in FDA's Bacteriological Analytical Manual (BAM) and presents the agency's preferred laboratory procedures for microbiological analyses 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> O48:H21	Purple
<i>E. coli</i> O111:H or O111:H8	Violet or gray



RAINBOW AGAR SALMONELLA

Rainbow Agar Salmonella utilizes an enhanced detection chemistry to determine H₂S production among *Salmonella* spp.. Black colonies are formed by even weak H₂S producing strains. In addition, novel selective agents increase the recovery rate of *Salmonella* while inhibiting the growth of other enteric bacteria and inhibiting H₂S production by *Citrobacter* and other H₂S positive enteric species.

EXPECTED RESULTS

Organism	Black Colonies
<i>Salmonella</i> subspecies 1:	
<i>enteritidis</i>	+++
<i>choleraesuis</i>	++
<i>paratyphi A</i>	-
<i>paratyphi C</i>	+
<i>typhi</i>	+/-
<i>gallinarum</i>	-
<i>pullorum</i>	-
<i>Salmonella</i> subspecies 2	+++
<i>Salmonella</i> subspecies 3	+++
<i>Salmonella</i> subspecies 4	+++
<i>Salmonella</i> subspecies 5	+++
<i>Salmonella</i> subspecies 6	+++



CHROMOGENIC MEDIA

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 for more information.

*Not for human *in vitro* diagnostic use

Ordering Information:

Catalog #	Description	Unit Size
80102	Rainbow Agar O157	30 g (25 plates)
80202	Rainbow Agar SALMONELLA	47 g (50 plates)
80302	Rainbow Agar SHIGELLA/ AEROMONAS	71.5g (50 plates)

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