

73318 HiCrome (TM) Salmonella Agar

A selective chromogenic medium used for the isolation and differentiation of *Salmonella* species from coliforms in food and water.

Composition:

Ingredients	Grams/Litre
Peptic digest of animal tissue	6.0
Yeast extract	2.5
Bile salt mixture	1.0
Chromogenic mixture	5.4
Agar	13.0
Final pH (at 25 °C)	7.7 ± 0.2

Store below 8°C. use before expiry date on the label.

Directions:

Suspend 27.9g in 1 litre distilled water. Boil gently to dissolve the medium completely. **DO NOT AUTOCLAVE**. Cool to 50°C. Mix well and pour into sterile petri plates.

Principle and Interpretation:

Peptic digest of animal tissue provides nitrogenous, carbonaceous compounds and other essential growth nutrients. *E. coli* and *Salmonella* are easily distinguishable due to the colony characteristics. *Salmonella* give light purple colonies with halo. *E. coli* has a characteristic blue colour, other organisms give colourless colonies. The characteristic light purple and blue colour is due to the chromogenic mixture.

Cultural characteristics after 24-48 hours at 37°C

Organisms (ATCC)	Growth	Colour of colony
<i>Escherichia coli</i> (25922)	+++	blue
<i>Salmonella enteritidis</i> (13076)	+++	light purple with halo
<i>Salmonella typhi</i> (6539)	++	light purple with halo
<i>Salmonella typhimurium</i> (14028)	+++	light purple with halo
<i>Proteus vulgaris</i> (13315)	+	colourless
<i>Staphylococcus aureus</i> (25923)	-	-
<i>Bacillus subtilis</i> (6633)	-	-