

IVD solutions through partnership



CHROMagar™ Salmonella

For detection and isolation of *Salmonella*

A large circular inset image shows a microscopic view of a bacterial culture on CHROMagar. The agar is a light pink color. Numerous small, circular, pinkish-red colonies are visible, some appearing as distinct dots and others as small clusters. The colonies have a slightly irregular, textured appearance. The background of the agar is a uniform light pink. The circular inset is set against a white background with a subtle, abstract pattern of light blue and grey lines.

CHROMagar™
The Chromogenic Media Pioneer

● CHROMagar™ Salmonella

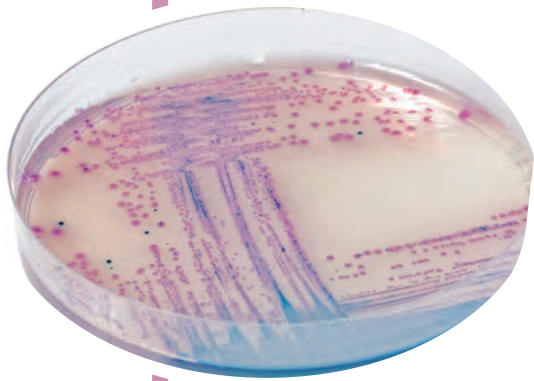
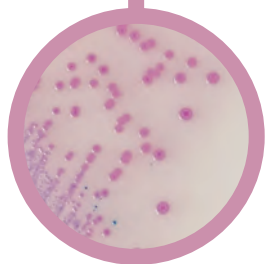


Plate Reading

- *Salmonella* including *S.typhi*
→ mauve
- Other bacteria
→ blue, colourless or inhibited



For detection and isolation of *Salmonella* species, including *S.typhi* and *S.paratyphi* in clinical specimens

Background

Infections caused by *Salmonella* spp, including *Salmonella typhi*, remain a major worldwide health problem:

- In the US, *Salmonella* has an incidence rate of 16.47 cases per 100,000 (CDC estimation, 2010).
- In Europe, it is reported as the first cause of food outbreaks (EFSA/ECDC 2011 report, 2009 figures)
- In developing countries, *Salmonella typhi* and *paratyphi* are commonly encountered with an estimated annual incidence of about 17 million cases. (2007 EFSA report)

Moreover, according to a recent WHO report, *Salmonella* infections are responsible for 2 million deaths per year from diarrhoea. *Salmonella* is the second most reported zoonotic infection in humans (EFSA/ECDC 2011 report, 2009 figures).

Mainly due to contamination in the food chain and/or during food-production processes, *Salmonella* commonly induces enteric illness whose major symptoms are abdominal cramps, diarrhea, nausea, vomiting. More severe cases, for instance typhoid cases or infections in immuno-repressed patients, can lead to body dehydration with renal failure or bacteraemia.

Medium Performance

1

Easy reading

Intense mauve colony colours for better identification and partial inhibition of *E.coli* and coliforms.

Greater specificity / less workload

Conventional media for the detection of *Salmonella* by H₂S character have very poor specificity resulting in numerous false positives (*Citrobacter*, *Proteus*, etc.) among the rare, real positive *Salmonella*. The workload for unnecessary examination of suspect colonies is so heavy that real positive *Salmonella* colonies might often be overlooked in routine testing. Because of their poor specificity, conventional media require a tedious examination of at least 10 colonies per suspected sample. On the contrary, CHROMagar™ Salmonella eliminates most of those false positives and allows technicians to focus on the real contaminated samples.

2

High sensitivity and specificity

leading to a higher detection rate of *Salmonella*

Sensitivity: 95 %*

Specificity: 88,9 %* compared to 78,5 % with Hektoen Agar.

*Specificity and sensitivity from scientific study: "Comparison of CHROMagar Salmonella medium and Hektoen Enteric Agar for isolation of *Salmonella* from stool samples." Gaillot O. et al. 1999. Journal of Clinical Microbiology, 37 : 762-765

3

Dramatic reduction of the workload

Number of useless confirmatory tests is minimized since there is no need of duplicating them.

Medium Description

Powder Base		
Total	.....	34.9 g/L
Agar	.....	15.0
Peptone and Yeast extract	.....	7.0
Chromogenic mix	.....	12.9
Storage at 2/30 °C - pH: 7.6 +/- 0.2		
Shelf Life	.....	> 12 months

Usual Samples	- Syndrom typhoid → stool or blood samples - Gastro enteritis → stool samples
Procedure	Direct Streaking. Incubation 18-24 h, 37 °C. Aerobic condition.

Scientific Publications on this product: available on www.CHROMagar.com
Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com



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Ordering Information

Product	Order Code
CHROMagar™ Salmonella dry media, 5 liter	15SA132
CHROMagar™ Salmonella ready to use plates, 20 pcs.	201420