

CHROMAGAR SALMONELLA

INTENDED USE:

Chromogenic medium for detection and isolation of Salmonella species, including S.Typhi and S.paratyphi in clinical specimens

PRINCIPLE AND INTERPRETATION:

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 diarrhea. Salmonella is the second most reported zoonotic infection in humans (EFSA/ECDC 2011 report, 2009 figures).

COMPOSITION:

Ingredients	Gr/Liter
Peptone and yeast extract	7 gr
Chromogenic mix	12,9 gr
Agar	15 gr

***Formula adjusted, standardized to suit performance parameters

pH: 7,6 ± 0,2

PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

TEST PROCEDURE:

Related samples can be processed by direct streaking on the plate, as well as prior appropriate enrichment step.

- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate
- Incubate at 37°C for 24h in aerobic conditions.

QUALITY CONTROL:

1.Sterility Control:

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH: 7,6 ± 0,2

Apperance: Light amber

3.Microbiological Control: Incubation at 35±2 °C during 24 h.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Salmonella typhimurium ATCC 14028	10-100	Growth	Mauve
Escherichia coli ATCC 25922	10-100	Growth	Blue, small colonies
Candida albicans ATCC 10231	100-1000	Inhibition	Inhibition
Staphylococcus aureus ATCC 25923	100-1000	Inhibition	Inhibition

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 02020

Packaging: Single wrap

Content: 10 plates/each package

REFERENCES:

- 1-Rapid detection of Salmonella in Chicken meat using immunomagnetic separation, CHROMagar, Elisa and Real-time Polymerase Chain Reaction (RT-PCR) 2011 Ensaf G. Taha and others. Department of pathobiology, college of Veterinary medicine, nursing and Allied Health, Tuskegee University, Tuskegee, AL, USA International Journal of Poultry Science 9 (9) : 831-835, 2010
- 2-Salmonella Prevalence and Total Microbial and Spore Populations in Spices Imported to Japan 2006 Y. Hara-Kudo and others - Division of Microbiology, National Institute of Health Sciences, Setagaya-ku, Tokyo 158-8501, Japan
- 3-Evaluation of three enrichment broths and five plating media for Salmonella detection in poultry. 2005 Rall V.L.M., Rall R., Aragon L.C., da Silva M.G. 2005. Brazilian Journal of Microbiology, 36 : 147-150.
- 4-Comparison of CHROMagar Salmonella medium and Xylose-Lysine-Desoxycholate and Salmonella-Shigella Agars for isolation of Salmonellae from stool samples. 2002 Maddocks S. et al. 2002. Journal of Clinical Microbiology, 40 : 2999-3003.
- 5-Comparison of CHROMagar Salmonella medium and Hektoen Enteric Agar for isolation of Salmonellae from stool samples. 1999 Gaillot O. et al. 1999. Journal of Clinical Microbiology, 37 : 762-765.



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature
Limitation



Do not reuse



Contains sufficient
for <n> tests



Look at user manual



Manufacturer