

CHROMATIC SALMONELLA

Chromogenic selective medium for isolation and differentiation of *Salmonella spp.* (including *S. typhi*).

TYPICAL FORMULA (g/L)

Proteose Peptone	7.0
Yeast Extract	3.0
Meat Extract	1.0
Sodium Chloride	5.0
Chromogenic mix	3.7
Agar	15.0
Final pH 7.5± 0.2	

DESCRIPTION

Chromogenic selective medium for isolation and differentiation of *Salmonella spp.*, including *S. typhi*, directly from clinical and industrial samples.

PRINCIPLE

Proteose Peptone and meat extract provide amino acids and proteins. Yeast extract is a source of amino acids and vitamins of group B. Sodium chloride maintains the osmotic balance of the medium. The special chromogenic mix allows to differentiate *Salmonella spp.*, including *S. typhi*, from other coliform and non-coliform bacteria, on the basis of the colour and the morphology of the colonies. Beside the chromogenic mix inhibits Gram-positive microorganisms. Tween 20 increases microbial growth.

PREPARATION

Suspend 34.7 g of powder in 1 L of sterile distilled or deionized water. Add 3 mL of Tween 20 Supplement (cod. 80032). Heat until completely dissolved. Sterilize at 100°C for 5 minutes. Dispense in petri dishes.

TECHNIQUE

Inoculate the plates by streaking the specimen onto the surface of the medium using a sterile loop.
Incubate at 35±2°C for 18-24 hours.

INTERPRETATION OF RESULTS

Salmonella typhimurium and other *Salmonella* species will appear as light mauve to mauve – colored colonies. *Citrobacter* and other coliforms will appear as light blue- green to blue- green colored colonies. Some organisms that do not hydrolyze any of the chromogenic compounds may appear as colorless colonies. Final identification must be performed by biochemical and/or serological tests.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed until the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared media at 2-8 °C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product is designed for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Bopp, Brenner, Wells and Strockbine. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.). Manual of clinical microbiology, 7th ed American Society for Microbiology, Washington, DC.
2. D'Aoust, Mauer and Bailey. 2001. In Doyle, Beuchat, and Montville (ed.) Food microbiology: fundamentals and frontiers, 2nd ed. American Society for Microbiology, Washington, DC.



Liofilchem s.r.l.

Via Scozia, Zona industriale - 64026 Roseto degli Abruzzi (Te) Italy - Tel. +39.0858930745 - Fax +39.0858930330
Web site: <http://www.liofilchem.net> - E-mail: liofilchem@liofilchem.net

PRODUCT SPECIFICATIONS

NAME
CHROMATIC SALMONELLA

PRESENTATION
Dehydrated culture medium

STORAGE
10-30 °C

PACKAGING

Code	Content	Packaging
610611	500 g	500 g of powder in plastic bottle
620611	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.5 ± 0.2

USE
Chromogenic selective medium for isolation and differentiation of *Salmonella spp.*, including *S. typhi*, directly from clinical and industrial samples.

TECHNIQUE
Refer to technical sheet of the product.

APPEARANCE of the MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous.
Colour: beige
Prepared medium
Appearance: clear
Colour: beige

SHELF LIFE
2 years









QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control

Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml
Inoculum for specificity: ≤ 10⁴ UFC/ml
Incubation conditions: 18-24 hours at 35+/-2°C

Microorganisms		Growth	Colour
<i>Escherichia coli</i>	ATCC 25922	Good	Colorless
<i>Salmonella enterica</i> subspecies <i>arizonae</i>	ATCC 13314	Good	Mauve
<i>Salmonella typhimurium</i>	ATCC 14820	Good	Mauve
<i>Proteus mirabilis</i>	ATCC 25933	Good	Colorless
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good	Colorless
<i>Staphylococcus aureus</i>	ATCC 25923	Inhibited	

TABLE OF SYMBOLS

 Batch code	 Temperature limitation	 Manufacturer	 Contains sufficient for <n> tests
 Catalogue number	 Keep away from heat	 Use by	 Caution, consult accompanying documents



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