

SALMONELLA CHROMOGENIC AGAR

(UNI EN ISO 6579-1)

 For in vitro diagnostic use **IVD**

Salmonella is a selective and differential medium for the isolation and presumptive identification of Salmonella spp. from clinical stool specimens, food and in water.

DESCRIPTION

Salmonella is ubiquitous in animal populations and is generally isolated from the intestinal tract of animals and humans. It is one of the most prevalent organisms associated with foodborne illnesses, which is often linked to animal origin. Illnesses caused by Salmonella have been associated with poultry, beef, chocolate, dairy and vegetable products

PRINCIPLE

Salmonella Chromogenic Agar is intended for the isolation and differentiation of Salmonella spp. The addition of chromogenic substrates in the medium facilitates detection of Salmonella species from other flora.

In Salmonella Chromogenic Agar specially selected peptones supply the nutrients. Grampositive organisms are generally inhibited as a result of the selective medium base. The addition of an antifungal agent prevents the growth of Candida species and other antimicrobial agents are used to inhibit the growth of gram-negative, non-glucose fermenting bacteria.

A chromogenic mixture is included in the medium. Due to metabolic differences in the presence of selected chromogens, colonies of Salmonella species appear mauve (rose to purple) in color, whereas undesired bacteria are either inhibited, or produce blue-green or colorless colonies.

| COMPOSITION | g/L |
|-------------------------------|------|
| Casein Peptone | 5.0 |
| Sodio citrato | 8.5 |
| Meat Extract | 5.0 |
| Chromogenic and Selective Mix | 5.8 |
| Agar | 13.0 |

Final pH 7,2 ± 0,2 at 25°C

WARNING AND PRECAUTIONS

For in vitro diagnostic use.

Observe the precautions normally taken when handling laboratory reagents.

Prepared Medium: The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

Safety Data Sheet is available on request for professional users.

All waste must be disposed of according to local directives.

STORAGE AND STABILITY

Prepared medium: 2-8°C

The product is stable until the expiration date indicated on the label under the recommended storage conditions.

PREPARATION

Prepared medium (bottles): Melt the content of the bottle in a water bath at 100°C until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

PROCEDURE

Inoculate the specimen onto a Salmonella Chromogenic Agar plate and streak for isolation. Incubate plates aerobically at 35 ± 2° C in an inverted position (agar side up) for 18-24 h.

RESULTS

| MICROORGANISM | TYPICAL COLONY COLOR |
|-------------------|----------------------|
| E. coli | Blue-green |
| Salmonella spp. | Mauve |
| Proteus mirabilis | Colorless |

QUALITY CONTROL

Prepared medium: Slightly opalescent, amber.

Typical response after incubation at 3±2°C for 18-24 hours, in aerobiosis

| MICROORGANISM | GROWTH |
|-----------------------------------|--|
| Escherichia coli ATCC 25922 | Partial to total inhibition / Blue-green |
| Salmonella enteritidis ATCC 13076 | Good / Mauve |
| Salmonella typhi ATCC 19430 | Good / Mauve |
| Salmonella typhimurium ATCC 14028 | Good / Mauve |
| Proteus vulgaris ATCC 25933 | Partial to total inhibition / Colorless |

REFERENCES

- Journal Clinical Microbiology, Vol. 41 n° 7 p. 3229-3232. July 2003 Robert Cassar and Paul Cuschieri.
- J.D. Perry, Michael Furs, Jeffrey Taylor, Et. Al. Journal Clinical Microbiology, March 1999, pag. 766-768 Vol. 37. n° 3
- Gallioti di camillo, p. Et. Al. (J. Clinil Microbiol. March 1999.
- UNI EN ISO 6579-1:2017 Microbiology od food and animal feeding stuffs. Horizontal method for the detection of Salmonella spp.
- UNI EN ISO 6579-1:2020 - Microbiologia della catena alimentare - Metodo orizzontale per la ricerca, la conta e la sierotipizzazione di Salmonella - Parte 1: Metodo orizzontale per la ricerca di Salmonella spp.

PRESENTATION

Packaging
REF.
Prepared medium
SALMONELLA CHROMOGENIC AGAR
6 x 100 mL Bottles 63364
20 pcs (90 mm ready to use plates) 2692102/02

SYMBOLS



Read the instructions



Biological hazard


CE Mark (product complies with the requirements of Regulation (EU) 746/2017)


Temperature limitation



Use by



For in vitro diagnostic use



Manufacturer