Product Specification

CulturaLab
Culturing Excellence in Microbiology

Chromogenic Salmonella Agar

Cat No: **111016**

Intended Use

Chromogenic Salmonella Agar is a selective and chromogenic medium intended for the isolation and presumptive identification of *Salmonella* species from food, environmental, and clinical samples. It is designed for use in microbiological testing and food safety laboratories as part of pathogen monitoring programs. The medium contains selective agents to inhibit competing non-Salmonella organisms, while chromogenic substrates target enzymes specific to *Salmonella*, resulting in distinctive colored colonies for easy identification. This allows for rapid screening and differentiation of *Salmonella* spp., improving workflow efficiency and aiding in the early detection of contamination.

Principle

Peptone serves as a rich source of nitrogen, amino acids, and peptides, providing essential nutrients required for bacterial growth. Yeast extract complements this by supplying vitamins—especially B-complex—minerals, and other growth factors that enhance microbial metabolism. The bile salts mixture acts as a selective agent, inhibiting the growth of Gram-positive organisms and reducing the presence of non-target bacteria, thereby favoring the isolation of *Salmonella*. The chromogenic mixture contains substrates that target enzymes specifically produced by *Salmonella*, leading to a color change in colonies, which allows for easy visual differentiation from other bacteria. Bacteriological agar serves as the solidifying agent, creating a stable medium surface for colony development and isolation.

Storage

Recommended storage conditions: 2 to 8 ℃. Store in cool dry place
Recommended shipping conditions: 2 to 8℃.

Production Standard

The formulation is prepared according to the recommendations of the current European, United States, and China Pharmacopoeia.

Precautions

1. The product may secrete water when exposed to temperature changes between low and room temperature, which is normal. Allow it to reach room temperature before use and, if possible, pre-dry it in a sterile drying oven.
2. Handle the plates with sterile gloves to prevent contamination during use.
3. Store the plates in a cool, dry place away from direct sunlight to maintain their integrity.
4. Avoid opening the plates until they are ready to be used in the sampling area to prevent airborne contamination.
5. Ensure the plates are used within their expiration date to guarantee accurate results.
6. Dispose of used plates according to biohazard waste protocols to prevent contamination and ensure safety.

Quality Control

The following were incubated at 36±1°C for 18-24 hours. The results are as follows:

Test Strains	Growth Results	Colony Characteristics
Escherichia coli ATCC 25922	+/-	Green-blue colonies or inhibited
Salmonella Typhimurium ATCC 14028	Good	Pale purple colonies
Enterococcus faecalis ATCC 29212	G≤1	N/A

Product Content

Product Content	Cat No.	Size
Chromogenic Salmonella Agar	111016	10 plates/bag; 200 plates/case

Composition

Peptone	6.0 g
Yeast extract	2.5 g
Bile salts mixture	1.0 g
Chromogenic mixture	5.4 g
Bacteriological agar	13.0 g
Water	1000ml
Final pH (at 25°C)	7.7 ± 0.2

Shelf Life

Shelf life: 3 months from date of manufacture

Packaging

90mm x 10 plates per bag; 200 plates/case

Each plate filled with 20mL ± 2mL

Disposal

Please adhere to the respective regulations for the disposal of used culture medium (e.g., autoclave for 30 minutes at 121 °C)

Specially manufactured for:

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