

TECHNICAL DATA SHEET

Article No. 9831

CHROMagar™ Salmonella Plus, prepared plates

SYNONYMS

Chromogenic salmonella agar, Salmonella Chromogenic Agar

SPECIFICATION

Chromogenic medium for isolation of *Salmonella* spp. according to ISO 6579.

Color: off-white
pH: 7.6 ±0.2 at 25 °C

COMPOSITION IN G/L

Yeast Extract and Peptone	8.000
Salts	8.500
Chromogenic mix	1.300
Selective supplement	6.000
White opaque supplement	1.000
Cefsulodin sodium salt	0.005
Agar	15.000

PACKAGING DETAILS

9831-20PLATES

20 prepared plates 90 mm

Content: 21 ±2 ml

Packaging unit: 1 box with 2 packs of 10 plates/pack. Single cellophane.



GUIDELINES

Description:

Chromogenic medium for the isolation of *Salmonella* species including *S. Typhi* and lactose positive *Salmonella*. This medium has a very high sensitivity but some *Salmonella* Dublin strains may appear colourless, nevertheless *Salmonella* Dublin is a rarely encountered serovar. Some *E.coli* strains may develop a very slight mauve coloration. Some *Pseudomonas* may appear in similar mauve colonies and can be eliminated by an oxydase test.

Technique:

For plate inoculation, follow the laboratories standard methods or the applicable norms (spiral plating method, econometric methods, streak plating methode, dilution banks, spread plating with Drigalsky rod etc.). If the agar plate has been refrigerated, allow to warm to room temperature before inoculation. Streak sample onto plate and incubate at 37 ±1 °C for 18-24 hours.

For interpretation of the results:

E. coli: colorless colonies

Coliforms: blue colonies

Salmonella: mauve colonies

P. hauseri: colorless or inhibited

P. aeruginosa: Inhibited

Final identification must be done by biochemistry and serology.

MICROBIOLOGICAL CONTROL

Spiral Spreading: Practical range 100 ±20 CFU. Min. 50 CFU (productivity)/ 10⁴-10⁶ CFU (selectivity).

Analytical methodology acc. to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 37 ±1 °C, reading after 24 ±3 h.

Microorganism	Growth
<i>Salmonella enterica</i> ATCC® 13076, WDCM 00030	Good - mauve colonies
<i>Salmonella typhimurium</i> ATCC® 14028, WDCM 00031	Good - mauve colonies
<i>Escherichia coli</i> ATCC® 25922, WDCM 00013	Good - colorless colonies
<i>Citrobacter freundii</i> ATCC® 8090	Good - blue colonies
<i>P. aeruginosa</i> ATCC® 9027, WDCM 00026	Inhibited

Sterility control:

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

BIBLIOGRAPHY

- PERRY, J.D., FORD, M., TAYLOR, J., JONES, A.L., FREEMAN R., GOULD, F.K. (1999). ABC medium a new chromogenic agar for the selective isolation of *Salmonella* sp. J. Clin. Microbiology.
- COOKE, V.M., MILES, RJ, PRICE, R.G., RICHARDSON, A.C., (1999): A novel chromogenic ester agar medium for detection of *Salmonella*, Appl. Environ. Microbiology 65, 807-812.
- RAMBACH, A. (1990). Appl. Environ. Microbiol. 56, 301-303.
- ISO Standard 6579-1 (2017) Microbiology of food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* - Part 1 : Detection of *Salmonella* spp.
- ISO 11133 (2014). Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

STORAGE

2-14 °C

SHELF LIFE

3 months

