

## Specification

Solid selective medium for the isolation, differentiation and enumeration of Enterococci in water, foodstuffs and pthers samples.

## Presentation

	Packaging Details	Shelf Life	Storage
30 Membrane filtration plates 55 mm Plates for filtration purposes with: 9 ± 2 ml	1 box containing: 6 plastic bags with 5 plates of 55 mm/ bag.	6 months	2-25 °C

## Composition

Composition (g/l):	
Peptones.....	10.00
Sodium chloride.....	5.00
Sodium azide.....	0.20
Di-potassium hydrogen phosphate.....	3.40
Potassium di-hydrogen phosphate.....	1.60
Ox Bile.....	0.50
Tween ® 80 .....	1.00
Chromogenic mixture.....	0.25
Agar.....	11.00

## Description /Technique

Collect, dilute and prepare samples and volumes to be filtered as required according to specifications, directives, official standard regulations and/or expected results.

Filter the sample through a 0.45 µm pore membrane and apply it onto the surface of the agar.

Incubate the plates aerobically at 35- 37 °C for 24-48h.

(Incubation times greater than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications,...)

After incubation, enumerate the colonies with Red o dark red colour that indicates the presence of enterocci. The blue-violet coloration is presumptive of *Aerococcus viridans*. If a more selective medium incubated at 44 ° C.

Calculate total microbial count per ml of sample by multiplying the average number of colonies per membrane by the inverse dilution factor. Report results as Colony Forming Unit (CFU's) per ml along with incubation time and temperature.

Confirmation of enterocci is required.

## Quality control

### Physical/Chemical control

Color : Pale yellow                      pH: 7.0 ± 0.2 at 25°C

### Microbiological control

Membrane Filtration /Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/10<sup>4</sup>-10<sup>6</sup> CFU (selectivity)/ ≥10<sup>3</sup> CFU (specificity).

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

Aerobiosis. Incubation at 37 °C ± 1, reading after 24-48 ± 2h

### Microorganism

*Escherichia coli* ATCC® 25922, WDCM 00013

*Enterococcus faecalis* ATCC® 19433, WDCM 00009

*Enterococcus faecalis* ATCC® 29212, WDCM 00087

*Enterococcus faecium* ATCC® 6057, WDCM 00177

### Growth

Inhibited

Good - Colonies red to mauve

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Good - Colonies red to mauve

### 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.

Reference: 175584ZA      Technical Data Sheet

Product: **Chromocult® Enterococci Agar**



## Bibliography

- ALTHAUS, H., DOT, W., HAVEMEISTER, G., MÜLLER, H.E., a. SACRÉ, C.: Faecal streptococci as indicator organisms of drinking water. -Zbl. Bakt. Hyg., I. Abt. Orig. A 252; 154-165 (1982)
- AMOROS, I.: Evaluation of Chromocult® Enterocci Broth (with agar). Posterpresentation Congress of Spanish Society of Microbiology, Madrid (1995)
- LITSKY, W., MALLMANN, W. L. a. FIFIELD, C. W.: A new medium for the detection of enterococci in water. -Amer. J. Pbl. Hlth. 43; 873-879 (1953)
- MANAFI, M. a. SOMMER, R.: Rapid identification of enterococci with a new fluorogenic-chromogenic test. - Wat. Sci. Tech. 27; 271-274 (1993)

**Note: \*Chromocult® is a trademark of Merck KGaA. This ready to use medium is made using only Chromocult® dehydrated media produced by Merck KGaA**