



Colichrom-Agar

Version: 07/2022
M&S item numbers: 4028 (25 x 20 ml) and 5025 (4 x 250 ml)
Profile: Glass tubes and polycarbonate bottles
Color: Light beige
Storage: Dark and dry at 4 – 12 °C
Shelf life: 8 months after production

Description and application range

Colichrom-Agar is used for the detection and enumeration of *Escherichia coli* and coliforms in water and food. With Colichrom-Agar coliforms can be cultivated and differentiated selectively by color. The chromogenic components allow identifying *E. coli* (blue colonies) easily among the accompanying microorganisms, i.e. red coliform and beige non-coliform colonies. Gram-positive bacteria are largely inhibited by Tergitol-7. The medium is according DIN EN ISO 9308-1:2017. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd. 2:2020 and ISO/DIS 7704 standard.

Typical composition

Enzymatic digest of casein	3.0 g/l
Sodium chloride	5.0 g/l
Sodium dihydrogenphosphate	2.2 g/l
Di-sodiumhydrogenphosphate	2.7 g/l
Sodium pyruvate	1.0 g/l
Tryptophane	1.0 g/l
Sorbitol	1.0 g/l
Tergitol-7	0.15 g/l
Chromogenic mix	0.4 g/l
Bacteriological Agar	13.0 g/l

Final pH: 6.8 ± 0.2 at 25 °C

Microbiological quality control

Bacterial contamination

Incubation: aerobically at room temperature for 3 days, specification: no growth

Productivity quantitative analysis

Incubation: aerobically at 36 ± 2 °C for 21 + 3 h, approx. inoculum: 50 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	$P_R \geq 0.7$	Blue colonies
<i>Klebsiella aerogenes</i>	WDCM 00175	$P_R \geq 0.7$	Reddish colonies

P_R productivity rate (recovery rate)



Selectivity qualitative analysis

Incubation: aerobically at 36 ± 2 °C for 21 + 3 h, approx. inoculum: 10,000 – 1,000,000 CFU

Microorganism	Test strain	Specification	Appearance
<i>Enterococcus faecalis</i>	WDCM 00009	Full inhibition	Fully inhibited

Specificity qualitative analysis

Incubation: aerobically at 36 ± 2 °C for 21 + 3 h, approx. inoculum: 80 - 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Pseudomonas aeruginosa</i>	WDCM 00024	Growth	Beige colonies



Spread plate culture of *Escherichia coli* (blue) and *Enterobacter aerogenes* (reddish) after 21 hours at 37 °C

