

Colichrom-Agar

Version:	01/2020
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

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 9308-1:2014 + A1:2017. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd 1:2018 standard.

Typical composition

Enzymatic digest of casein	3.0 g/l
Sodium chloride	5.0 g/l
Sodiumdihydrogenphosphate	2.2 g/l
Disodiumhydrogenphosphate	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: 7.0 ± 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: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	$P_R \geq 0,7$	Blue colonies
<i>Enterobacter aerogenes</i>	WDCM 00175	$P_R \geq 0,7$	Red colonies

Selectivity qualitative analysis

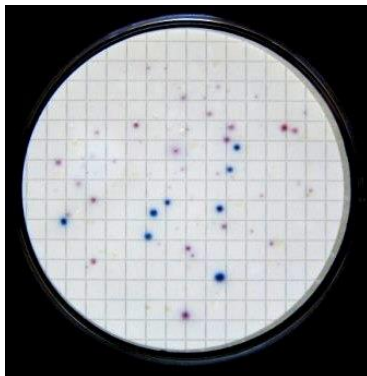
Incubation: aerobically at 36 ± 2 °C for 21 + 3 h, approx. inoculum: 10,000 – 1,000,000 CFU

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

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



Mixed culture of *Escherichia coli*, *Enterobacter aerogenes* and *Pseudomonas aeruginosa* after 18 hours at 37 °C