

ChroMedium Coliforme (CCA)

According to ISO 9308-1:2012

Shorthand symbol:	CCA
Item number:	40-1064
Format:	Petri Dish, 90mm
Colour:	Yellowish, transparent
Storage conditions:	Dry, in closed bag at 4 – 10°C.
Shelf-life:	4 Months
pH:	6.8 ± 0.2 at 25°C



Intended use and fields of application

Chromogenic Coliform Medium (CCA) allows the detection and enumeration of total Coliforms and Escherichia Coli for the microbiological analysis of water and food samples. The nutrient medium promotes the rapid growth of coliforms, even in case of sublethal injury. The addition of Tergitol-7 inhibits the growth of Gram Positive bacteria and in some cases Gram Negative bacteria. The short incubation period of less than 24 hours reduces the analysis time when compared to other existing methods.

Typical composition in g/l

in g per 1 Litre Nutrient medium

Casein peptone	1.0
Yeast Extract	2.0
Sodium Chloride	5.0
Sodium hydrogen phosphate	2.2
Disodium hydrogen phosphate	2.7
Sodium pyruvate	1.0
Sorbitol	1.0
Tryptophan	1.0
Tergitol-7	0.15
6-Chloro-3-indoxyl-β-D-galactopyranoside	0.2
5-Bromo-4-chloro-3-indoxyl-β-D-glucuronic acid	0.1
Isopropyl-β-D-thiogalactopyranoside (IPTG)	0.1

*Adjusted as required to meet performance standards

Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements BS EN ISO 11133:2014.

Productivity

Incubation conditions: 21±3 hours at 36±2°C; Inoculum concentration: 80–120 CFU

Organism	Type Strain	Specification	Colony morphology
Escherichia coli	NCTC 13167/WDCM 00179	50–130 %	Typical, blueish violet colonies
Enterobacter aerogenes	ATCC 13048/WDCM 00175	50–130 %	Typical pink colonies
Citrobacter freundii	ATCC 43864/WDCM 00006	50–130 %	Typical pink colonies

Selectivity

Incubation conditions: 21±3 hours at 36±2°C; Inoculum concentration: 10.000–1.000.000 CFU

Organism	Type Strain	Specification	Colony morphology
Enterococcus faecalis	ATCC 19433/WDCM 00009	Complete inhibition	-

Specificity

Incubation conditions: 21±3 hours at 36±2°C; Inoculum concentration: 1.000–10.000 CFU

Organism	Type Strain	Specification	Colony morphology
Pseudomonas aeruginosa	ATCC 27853/WDCM 00025	Good growth	White, green colonies

Microbial Contamination

Incubation conditions: 5–7 days at 20–25°C and 5–7 days at 30–35 °C

Specification

No microbial contamination