

Plate Count-Agar

Version: 01/2020
M&S item numbers: 4100 (25 x 20 ml) and 5090 (4 x 250 ml)
Profile: Glass tubes and polycarbonate bottles
Color: Beige
Storage: Dark and dry at 4 – 12 °C
Shelf life: 8 months

Description and application range

Plate Count-Agar is used for the determination of total colony count in water and other samples. It is a universal medium without any inhibitors and additives. It can be used to individually add antibiotics or other supplements. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd 1:2018 standard.

Typical composition

Enzymatic digest of casein	5.0 g/l
Yeast extract	2.5 g/l
Dextrose	1.0 g/l
Bacteriological Agar	15.0 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 30 - 37 °C for 24 - 72 h, approx. inoculum: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	$P_R \geq 0,7$	Beige
<i>Bacillus subtilis</i>	WDCM 00003	$P_R \geq 0,7$	Beige
<i>Pseudomonas aeruginosa</i>	WDCM 00024	Growth (2)	Beige to blue-greenish
<i>Staphylococcus aureus</i>	WDCM 00034	Growth (2)	Beige to light yellow
<i>Enterococcus faecalis</i>	WDCM 00009	Growth (1-2)	Beige, little