



Plate Count-Agar

Version: 07/2022
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 after production

Description and application range

Plate Count-Agar is used for the determination of total colony count of mesophilic, heterotrophic bacteria 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. 2:2020 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 ± 1 °C for 72 ± 3 h, approx. inoculum: 50 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	$P_R \geq 0.7$	Beige colonies
<i>Escherichia coli</i>	WDCM 00013	$P_R \geq 0.7$	Beige colonies
<i>Bacillus subtilis</i>	WDCM 00003	$P_R \geq 0.7$	Beige colonies
<i>Staphylococcus aureus</i>	WDCM 00034	$P_R \geq 0.7$	Beige colonies

P_R productivity rate (recovery rate)