

R2A-Agar

Version: 01/2020
M&S item numbers: 4125 (25 x 20 ml) and 5095 (4 x 250 ml)
Profile: Glass tubes and polycarbonat bottles
Color: Opaque
Storage: Dark and dry at 4 – 12 °C
Shelf life: 8 months

Description and application range

R2A-Agar is used for the total colony count of mesophilic, heterotrophic microorganisms in water and other samples. R2A-agar is a medium with low nutrient concentration, which, in combination with the long incubation time at low incubation temperature, allows slow growing organisms to develop without being suppressed by fast growing organisms. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd 1:2018 standard.

Typical composition

Enzymatic digest of casein	1.0 g/l
Yeast extract	0.5 g/l
Dextrose	0.5 g/l
Soluble starch	0.5 g/l
Dipotassiumhydrogenphosphate	0.3 g/l
Magnesiumsulphate	0.024 g/l
Sodiumpyruvate	0.3 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	Growth (2)	Beige
<i>Bacillus subtilis</i>	WDCM 00003	Growth (1-2)	Beige
<i>Staphylococcus aureus</i>	WDCM 00034	Growth (2)	Small, light yellow
<i>Pseudomonas arruginosa</i>	WDCM 00024	Growth (2)	Beige to blue-green