



Cetrimide-Agar

Version: 07/2022
M&S item numbers: 4025 (25 x 20 ml) and 5021 (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

Cetrimide-Agar is used for the detection and selective colony count of *Pseudomonas aeruginosa* in drinking water and foodstuffs. The formulation is according to EP/USP. *Pseudomonas aeruginosa* is able to synthesize several pigments. The most common ones are the blue-green Pyocyanin and the yellow fluorescent Fluorescein. Rarer you find the black-brown Pyomelanin and the red Pyorubin. Cetrimide is used to inhibit the growth of other bacteria. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd. 2:2020 standard.

Typical composition

Enzymatic digest of Gelatin	20.0 g/l
Potassium sulfate	10.0 g/l
Magnesium chloride	1.4 g/l
Glycerol	10.0 ml/l
Cetrimide	0.3 g/l
Bacteriological Agar	15.0 g/l

Final pH: 7.2 ± 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 44 ± 4 h, approx. inoculum: 50 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Pseudomonas aeruginosa</i>	WDCM 00024	$P_R \geq 0.7$	Blueish green with green halo, fluorescence under UV light
<i>Pseudomonas aeruginosa</i>	WDCM 00025	$P_R \geq 0.7$	Blueish green with green halo, fluorescence under UV light

P_R productivity rate (recovery rate)



Selectivity qualitative analysis

Incubation: aerobically at 36 ± 2 °C for 44 ± 4 h, approx. inoculum: 10,000 – 1,000,000 CFU

Microorganism	Test strain	Specification	Appearance
<i>Staphylococcus aureus</i>	WDCM 00034	Full inhibition	Fully inhibited



Pseudomonas aeruginosa after 48 hours at 37°C