



Pseudomonas CN-Agar

Version: 07/2022
M&S item numbers: 5280 (25 x 20 ml) and 5281 (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

Pseudomonas CN-Agar is used for the determination and the colony count of *Pseudomonas aeruginosa* from drinking water and foodstuffs. The formulation is according to DIN EN ISO 16266:2008. *Pseudomonas aeruginosa* is able to synthesize several pigments. The most common ones are the blue-greenish Pyocyanin and the yellow fluorescent Fluorescein. Rarer you find the black-brown Pyomelanin and the red Pyorubin. Nalidixic acid and Cetrimide are 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	16.0 g/l
Enzymatic digest of casein	10.0 g/l
Potassium sulfate	10.0 g/l
Magnesium chloride	1.4 g/l
Glycerol	10.0 ml/l
Cetrimide	0.2 g/l
Nalidixic acid	0.015 g/l
Bacteriological Agar	11.0 g/l

Final pH: 7.1 ± 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	$P_R \geq 0.5$	Blueish green with green halo, fluorescence under UV-light
<i>Pseudomonas aeruginosa</i>	WDCM 00025	$P_R \geq 0.5$	Beige to green-brownish, 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>Escherichia coli</i>	WDCM 00012	Full inhibition	Fully inhibited
<i>Escherichia coli</i>	WDCM 00013	Full inhibition	Fully inhibited
<i>Enterococcus faecalis</i>	WDCM 00009	Full inhibition	Fully inhibited



Pure culture of *Ps. aeruginosa* after 48 hours at 37 °C under UV-light