



## Pseudomonas CN-NPS

Version: 11/2022  
M&S Item numbers: 1145 (50 / PK) und 1145-H (100 / PK)  
Profile: Dehydrated nutrient pad sets 50 mm in petri dishes, sterile  
Color: Beige  
Storage: Dark and dry at room temperature  
Shelf life: 2 years after sterilization

### Description and application range

*Pseudomonas* CN-NPS are used for the detection and selective colony count of *Pseudomonas aeruginosa* in drinking water and foodstuffs. The formulation complies with DIN EN ISO 16266:2008 (Replacement for DIN EN ISO 12780:2002). *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
Nalidixid acid	0.015 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, fluorescence under UV light
<i>Pseudomonas aeruginosa</i>	WDCM 00025	$P_R \geq 0.5$	Beige to green-brownish, fluorescence under UV light

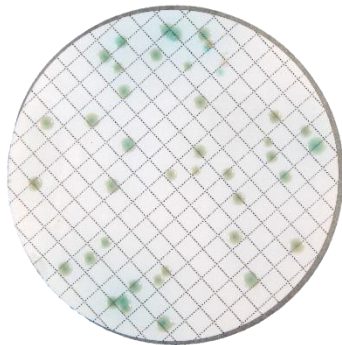
$P_R$  productivity rate (recovery rate)



**Selectivity** qualitative analysis

Incubation:  $44 \pm 4$  h at  $36 \pm 2$  °C; approx. inoculum: 10.000 - 1.000.000 CFU

Microorganism	Test strain	Specification	Appearance
<i>Enterococcus faecalis</i>	WDCM 00009	Full inhibition	Fully inhibited
<i>Escherichia coli</i>	WDCM 00012	Full inhibition	Fully inhibited
<i>Escherichia coli</i>	WDCM 00013	Full inhibition	Fully inhibited



Pure culture of *Pseudomonas aeruginosa* after 36 hours at 37 °C