R2A-NPS

Version:	11/2022
M&S Item numbers:	1155 (50 / PK) und 1155-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

R2A-NPS are used for the total colony count of mesophilic, heterotrophic microorganisms in water and other samples. R2A-NPS 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 2:2020 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
Di-Potassiumhydrogenphosphate	0.3 g/l
Magnesium sulfate	0.024 g/l
Sodium pyruvate	0.3 g/l

Final pH: 7.0 ± 0.2 at 25 °C

Microbiological quality control

Bacterial contamination
Incubation: aerobically at room temperature for 5 days, specification: no growth

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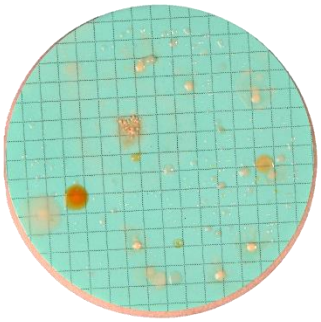
Productivity quantitative analysis
Incubation: aerobically at 30 ± 1 °C for 5 days, approx. inoculum: 50 – 120 CFU

Microorganism	Test strain	Specification	Appearance
Escherichia coli	WDCM 00012	$P_R \geq 0.7$	Beige colonies
Escherichia coli	WDCM 00013	$P_R \geq 0.7$	Beige colonies
Bacillus subtilis	WDCM 00003	$P_R \geq 0.7$	Beige colonies
Enterococcus faecalis	WDCM 00009	$P_R \geq 0.7$	Beige colonies
Pseudomonas aeruginosa	WDCM 00024	$P_R \geq 0.7$	Beige colonies

P_R productivity rate (recovery rate)



Sample from surface water after 72 hours at 20 °C

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