

R2A-NPS

Version: 10/2017
M&S item numbers: 1155 (50 / PK) and 1155-H (100 / PK)
Profile: Dehydrated nutrient pad sets 50 mm in petri dishes, sterile
Color: White
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 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
Magnesiumsulfate	0.024 g/l
Sodiumpyruvate	0.3 g/l

Final pH: 7.0 ± 0.2 at 25 °C

Microbiological quality control

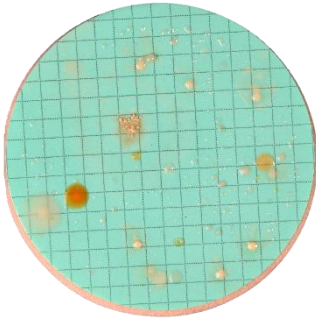
Bacterial contamination

Incubation: aerobically at room temperature for 3 days, specification: no growth

Productivity quantitative analysis

Incubation: aerobically at 20 - 30 °C for 5 days, approx. inoculum: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	$P_R \geq 0,7$	Beige
<i>Pseudomonas aeruginosa</i>	WDCM 00024	Growth	Beige
<i>Staphylococcus aureus</i>	WDCM 00034	Growth	Beige to light yellow



Sample from surface water after 72 hours at 20 °C