



Chapman-NPS

Version: 11/2022
M&S Item numbers: 1050 (50 / PK) und 1050-H (100 / PK)
Profile: Dehydrated nutrient pad sets 50 mm in petri dishes, sterile
Color: Beige, reddish after wetting
Storage: Dark and dry at room temperature
Shelf life: 2 years after sterilization

Description and application range

Chapman-NPS are used for the detection of Staphylococci from food and other samples. The formulation is acc. to Chapman, modified. Due to the high concentration of sodium chloride only salt tolerant microorganisms are able to grow. Staphylococci can be differentiated by the usage of Mannitol and pigment formation. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd. 2:2020 standard.

Typical composition

Enzymatic digest of casein	10.0 g/l
Enzymatic digest of gelatin	30.0 g/l
Yeast extract	2.5 g/l
Di-Potassiumhydrogenphosphate	5.0 g/l
Lactose	2.0 g/l
Mannitol	10.0 g/l
Sodium chloride	75.0 g/l
Phenol red	0.04 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 37 ± 1 °C for 44 ± 4 h, approx. inoculum: 50 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Staphylococcus aureus</i>	WDCM 00034	$P_R \geq 0.5$	Yellow with yellow halo
<i>Staphylococcus saprophyticus</i>	WDCM 00159	$P_R \geq 0.5$	Light yellow without halo

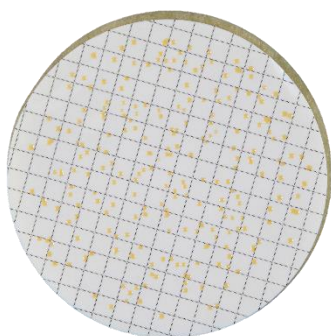
P_R productivity rate (recovery rate)



Selectivity qualitative analysis

Incubation: aerobically at 37 ± 1 °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



Pure culture of *Staphylococcus aureus* after 36 hours at 37 °C