

Chapman-NPS

Version: 10/2017
M&S item numbers: 1050 (50 / PK) and 1050-H (100 / PK)
Profile: Dehydrated nutrient pad sets 50 mm in petri dishes, sterile
Color: Reddish
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 standard.

Typical composition

Enzymatic digest of casein	10.0 g/l
Yeast extract	2.5 g/l
Di-Potassium hydrogenphosphate	5.0 g/l
Lactose	2.0 g/l
Mannitol	10.0 g/l
Gelatin	30.0 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 24 - 48 h, approx. inoculum: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Staphylococcus aureus</i>	WDCM 00034	$P_R \geq 0,5$	Yellow with yellow halo

Selectivity qualitative analysis

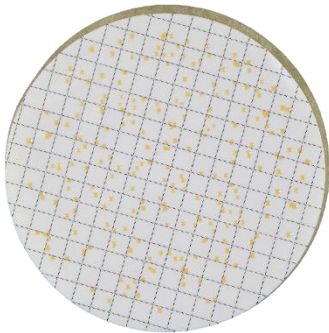
Incubation: aerobically at 37 ± 1 °C for 48 ± 2 h, approx. inoculum: 10,000 – 1,000,000 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	Full inhibition	-

Specificity qualitative analysis

Incubation: aerobically at 37 ± 1 °C for 24 - 48 h, approx. inoculum: 80 - 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Staphylococcus saprophyticus</i>	WDCM 00159	Growth	White to light yellow without halo



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