

m-FC-NPS

Version: 01/2020
M&S item numbers: 1100 (50 / PK) and 1100-H (100 / PK)
Profile: Dehydrated nutrient pad sets 50 mm in petri dishes, sterile
Color: Purple
Storage: Dark and dry at room temperature
Shelf life: 2 years after sterilization

Description and application range

m-FC-NPS are used for the detection and colony count of fecal coliforms in water, food and other samples. With m-FC-NPS fecal coliforms can be cultivated selectively. Bile salts inhibit the growth of gram-positive bacteria and while all coliforms are able to use Lactose as carbon source, only fecal coliforms can grow at an incubation temperature of 44 °C. Aniline blue and Rosolic acid form the color indicator system. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd 1:2018 standard.

Typical composition

Enzymatic digest of casein	15.0 g/l
Yeast extract	3.0 g/l
Sodium chloride	5.0 g/l
Bile salts	0.1 g/l
Lactose	12.5 g/l
Aniline blue	0.1 g/l
Rosolic acid	0.1 g/l

Final pH: 7.4 ± 0.2 at 25 °C

Microbiological quality control

Bacterial contamination

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

Productivity quantitative analysis

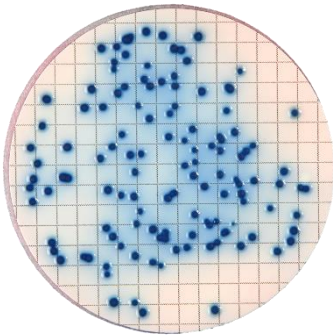
Incubation: aerobically at 44 ± 1 °C for 21 ± 3 h, approx. inoculum: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Escherichia coli</i>	WDCM 00012	$P_R \geq 0,8$	Blue
<i>Enterobacter aerogenes</i>	WDCM 00175	$P_R \geq 0,7$	Gray blue

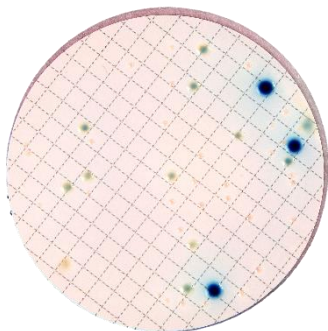
Selectivity qualitative analysis

Incubation: aerobically at 44 ± 1 °C for 21 ± 3 h, approx. inoculum: 10,000 – 1,000,000 CFU

Microorganism	Test strain	Specification	Appearance
<i>Staphylococcus aureus</i>	WDCM 00034	Full inhibition	-



Pure culture of *E. coli* after 20 h at 44 °C



Mixed culture with 3 colonies of *E. coli* (blue) after 20 h at 44 °C