Endo-NPS

Version: 01/2020
M&S item numbers: 1090 (50 / PK) and 1090-H (100 / PK)
Profile: Dehydrated nutrient pad sets 50 mm in petri dishes, sterile
Color: Pink
Storage: Dark and dry at room temperature
Shelf life: 1 years after sterilization

Description and application range

Endo-NPS are used for the detection of *Escherichia coli* and other coliform bacteria in water, wastewater and other samples. The formulation is modified acc. to “Standard Methods for the Examination of Water and Wastewater”. Gram positive bacteria are inhibited by fuchsin and sodium sulfite, whereas gram-negative organisms show good growth. Bacteria that are able to metabolize Lactose develop red to dark red colonies due to the presence of fuchsin. For most of the *E. coli* strains this reaction is so intense that the fuchsin is crystallized giving the typical green metallic sheen. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd 1:2018 standard.

Typical composition

Enzymatic digest of casein	10.0 g/l
Lactose	10.0 g/l
di-Potassium hydrogen phosphate	2.5 g/l
Sodium sulfite	3.3 g/l
Fuchsin	0.3 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 36 ± 2 °C for 21 ± 3 h, approx. inoculum: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
Escherichia coli	WDCM 00012	$P_R \geq 0,7$	Dark red with green metallic sheen
Enterobacter aerogenes	WDCM 00175	$P_R \geq 0,7$	Red to dark red

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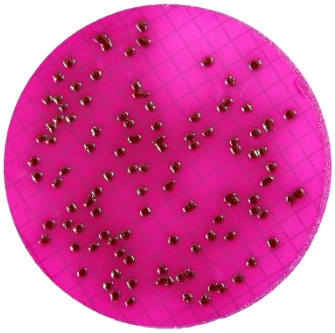
Selectivity qualitative analysis
Incubation: aerobically at 36 ± 2 °C for 21 ± 3 h, approx. inoculum: 10,000 – 1,000,000 CFU

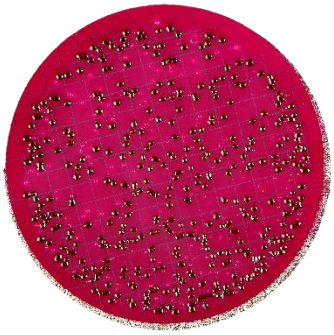
Microorganism	Test strain	Specification	Appearance
Enterococcus faecalis	WDCM 00009	Partial inhibition	-

Specificity qualitative analysis
Incubation: aerobically at 36 ± 2 °C for 21 ± 3 h, approx. inoculum: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
Pseudomonas aeruginosa	WDCM 00024	Growth	Beige



Pure culture of E. coli after 24 h at 37 °C



Mixed culture of *E. coli* and *Citrobacter freundii after 24 hours at 37 °C*