



Azide-NPS

Version: 11/2022
M&S Item numbers: 1010 (50 / PK) und 1010-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

Azide-NPS are used for the detection and selective colony count of intestinal enterococci in drinking water, food stuffs and other samples. The formulation is according to Slanetz and Bartley and in accordance with DIN EN ISO 7899-2:2000 and § 35 LMBG. The presence of sodiumazide inhibits the growth of other bacteria than enterococci and provides a high selectivity for them. TTC is metabolized from bacteria to red Formazan and facilitates counting of the small colonies. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd. 2:2020 standard.

Typical composition

Enzymatic digest of casein	20.0 g/l
Yeast extract	5.0 g/l
Di-Potassiumhydrogenphosphate	4.0 g/l
Dextrose	2.0 g/l
Sodium azide	0.4 g/l
2,3,5-Triphenyltetrazoliumchloride (TTC)	0.1 g/l

Final pH: 7.2 ± 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 44 ± 4 h, approx. inoculum: 50 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Enterococcus faecalis</i>	WDCM 00009	$P_R \geq 0.5$	Red colonies
<i>Enterococcus faecalis</i>	WDCM 00087	$P_R \geq 0.5$	Red colonies
<i>Enterococcus faecium</i>	WDCM 00177	$P_R \geq 0.5$	Small red colonies

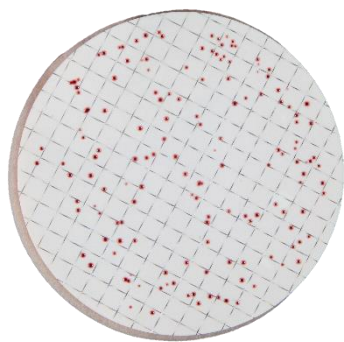
P_R productivity rate (recovery rate)



Selectivity qualitative analysis

Incubation: aerobically at 36 ± 2 °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
<i>Staphylococcus aureus</i>	WDCM 00034	Full inhibition	Fully inhibited



Pure culture of *Enterococcus faecalis* after 24 hours at 37 °C