

Enterococcus Selective-Agar (Slanetz Bartley)

Version: 01/2020
M&S Item numbers: 5240 (25 x 20 ml) and 5241 (4 x 250 ml)
Profile: Glass tubes and polycarbonate bottles
Color: Light red
Storage: Dark and dry at 4 – 8 °C
Shelf life: 8 months

Description and application range

Enterococcus-Selective-Agar is used for the detection and selective colony count of intestinal enterococci in drinking water and other samples. The formulation is according to Slanetz and Bartley and in accordance with DIN EN ISO 7899-2:2000. 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 1:2018 standard.

Typical composition

Enzymatic digest of casein	20.0 g/l
Yeast extract	5.0 g/l
Dipotassiumhydrogenphosphate	4.0 g/l
Dextrose	2.0 g/l
Sodium azide	0.4 g/l
2,3,5-Triphenyltetrazoliumchloride (TTC)	0.1 g/l
Bacteriological Agar	10.0 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: 80 – 120 CFU

Microorganism	Test strain	Specification	Appearance
<i>Enterococcus faecalis</i>	WDCM 00009	$P_R \geq 0,5$	Small, dark red
<i>Enterococcus faecium</i>	WDCM 00177	$P_R \geq 0,5$	Small, dark red

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	-
<i>Staphylococcus aureus</i>	WDCM 00034	Full inhibition	-



Pure culture of *Enterococcus faecalis* after 30 hours at 37 °C