

# Bile Esculin Azide Agar

## BEM, Bile Esculin Medium

TN 1276 500 g



### Intended use

Used for the selective detection and determination of the germ count of enterococci from water and other material.

### Form

Powder

### Colour

Greenish

### Storage

Dry, tightly closed, at 10...25 °C.

### Shelf life

3 years

### Typical composition

Component	g/l
Casein peptone (tryptone)	17
Peptone	3
Yeast extract	5
Ox bile, desiccated	10
Sodium chloride	5
Esculin	1
Ammonium iron (III) citrate	0.5
Sodium azide	0.15
Agar	12

### Directions

Suspend 53.7 g in 1 litre distilled water and heat until completely dissolved. Autoclave at 121 °C for 15 minutes.

### Final pH at 25 °C

7.1 ± 0.2

### Microbiological quality control

Incubate Bile Esculin Azide Agar (BEM; Bile Esculin Medium) aerobically for 22-24 hours at 44 ± 1 °C.

Test strain	ATCC no.	CFU/plate	Growth	Colony colour
<i>Enterococcus faecalis</i>	19433	10-100	good	grey with black corona
<i>Enterococcus faecalis</i>	29212	10-100	good	grey with black corona
<i>Enterococcus durans</i>	10541	10-100	good	grey with black corona
<i>Staphylococcus aureus</i>	25923	10-100	no growth	n. a.
<i>Streptococcus pyogenes</i>	19615	10-100	no growth	n. a.
<i>Escherichia coli</i>	25922	ca. 1000	no growth	n. a.