

BRILLIANT GREEN BILE BROTH 2% MUGLiquid medium for the detection of coliforms and *E.coli***Typical Formula (g/l)**

Oxgall	20.0000
Lactose	10.0000
Peptone	10.0000
L-Tryptophan	1.0000
Brilliant Green	0.0133
MUG	0.1000

Directions

Suspend 41 g in 1000 ml of cold distilled water; heat to dissolve, distribute into fermentation tubes and sterilise by autoclaving at 121°C for 15 minutes. Do not exceed time and temperature of sterilisation. With inocula greater than 1ml for 10ml of medium, use multiple strength medium.

Final pH 7.2 ± 0.2

Description and technique

Brilliant Green Bile Broth 2% MUG is used for the detection of *E. coli*, with the MPN procedure, in water and foods. Incubate the inoculated tubes for 18-24 hours and observe periodically for the development of fluorescence using a Wood's lamp. Refer to the various compendia for the test being performed and to technical sheet of Brilliant Green Bile Broth 2% for the details of the procedure for the detection and confirmation of coliforms. Because the liquid medium contains tryptophan, the indole test can be carried on the incubated tubes.

User quality assurance (37°C-24 h)

Productivity control

E.coli ATCC 25922: growth, gas production, fluorescent under Wood's lamp, indole test +

C.freundii ATCC 43864: growth, gas production, not fluorescent under Wood's lamp, indole test -

Selectivity control

E.faecalis ATCC 19433: partially inhibited, no gas production

Storage

Dehydrated medium: 2-8°C

User prepared plates: 1 month at 2-8°C in the dark

Packaging

4012661	Brilliant Green Bile Broth 2% MUG,	100 g (2.4 l)
4012662	Brilliant Green Bile Broth 2% MUG,	500g (12.2 l)