MM0138

TBX Medium
(Tryptone Bile X-Glucuronide Medium

Use and description:
TBX is uded in isolation and identification of E. coli in food.

Principles :
TBX is a modification of Tryptone Bile Agar. Tryptone Bile Agar was developed to improve the detection of E.coli in foods. TBX Medium is enhanced by the addition of a chromogenic agent X-glucunoride, detecting glucunoride activity.

Composition per liter:
Petones…….20.0 g
Bile Salts …… 1.5 g
X-glucunoride …… . 0.075 g
Agar …… 15.0 g

Final pH of the ready to use medium: 7.2 ± 0.2

Medium preparation:
Add 36.6 grams of dehydrated culture medium to 1 liter of distilled water. Mix thoroughly. Autoclave for 15 min at 121°C.

Quality specifications:
Dehydrated medium: cream- white fine powder.
Ready to use medium: light brownish-yellow

Microbiological response: after 48H of incubation

Organism	Result	Growth
Enterobacter aerogenes ATCC 13048	Growth	white
Escheria Coli ATCC 25922	Growth	blue
Escheria coli 35218	Growth	blue
Escheria coli ATCC 11775	growth	blue
Escheri coli O157:H7	growth	white
Salmonella choleraesuis ATCC 13076	growth	white
Shigella flexneri ATCC 12022	growth	white

Storage:
Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.