ALLIANCE BIO EXPERTISE

Reference: FLWR3090 **A.B.E. - Technical Data Sheet**

Product: **Thioglycollate Broth -100 ml**

Specification

Medium used for the cultivation of anaerobic pathogenic microorganisms in clinical specimens and in sterility test of viscous or cloudy products.

Presentation

	Packaging Details	Shelf Life	Storage
10 Prepared bottle Bottle 125 ml with: 100 ± 3 ml	1 box with 10 bottles 125 ml. Injectable cap: Plastic screw inner cap + red protective external cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.	15 months	2-25 ºC

Composition

Composition (g/l):

Peptone from casein	15.0
Yeast extract	5.0
D(+)-Glucose (Dextrose) monohydrate	5.5 (*1)
Sodium chloride	2.5
Sodium thioglycolate	0.5
L-Cystine	0.5

(*1) Equivalent to 5.0 g of D(+)-Glucose anhydrous.

Description /Technique

Thioglycolate Broth also know as Alternative Thioglycolate Medium was formulated and recommended by the USP, NF, NIH and FDA. It is used for sterility testing of biological products or samples of turbid appearance where Fluid Thioglycolate Medium is not suitable because of its viscosity. The formula of Thioglycolate Broth is the same as Thioglycolate USP Fluid Medium without resazurin and agar.

Technique

For the inoculation of bottles, follow the standard laboratory method or the applicable norms, (Stab inoculation, loop inoculation, dilution banks , etc ...)
The methodology is according to the standard methods describe in the Pharmacopoeia.
Inoculate the culture medium with the sample material taking care that the sample reaches the bottom of the container.
Incubate for at least 14 days at the optimal temperature. Anaerobes grow in the lower part of the culture medium container.

Quality control

Physical/Chemical control

Color : yellow pH: 7.1 ± 0.2 at 25ºC

Microbiological control

Prepare tubes - Inoculate: Practical range 10-100 CFU (productivity) according to harmonized Eur. Pharmacopoeia

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30-35ºC. Reading at 18-72h

Microorganism	Growth
Clostridium sporogenes ATCC® 19404, WDCM 00008	Good - in anaerobic zone
Ps. aeruginosa ATCC® 9027, WDCM 00026	Good
Staphylococcus aureus ATCC® 6538, WDCM 00032	Good

Sterility control

Incubation 14 days at 32.5 ± 2 ºC: NO GROWTH.
Incubation 14 days at 22.5 ± 2 ºC: NO GROWTH.

Bibliography

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