



Product Data Sheet

THIOGLYCOLLATE AGAR

Product No. GB-DCM-00286-1A

INTENDED USE

For cultivation of anaerobic microorganisms.

PRODUCT SUMMARY

Thioglycollate Agar is used for the cultivation of aerobic as well as anaerobic microorganisms in the performance of sterility tests. It is prepared based on the formula specified by US Pharmacopoeia and APHA. This medium neither requires anaerobic jar nor any special sealing for the cultivation of anaerobes. Thioglycollate Agar is also recommended for the cultivation of Clostridium species and in the culture of Desulfotomaculum nigrificans.

Product Specifications

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	15.000
L-Cystine	0.500
Dextrose	5.500
Yeast extract	5.000
Sodium chloride	2.500
Sodium thioglycollate	0.500
Resazurin	0.001
Agar	20.000

PRINCIPLE

Casein enzymic hydrolysate, yeast extract provides nitrogenous compounds, vitamin B and other essential growth nutrients. Dextrose is the fermentable carbohydrate and energy source. Resazurin is the redox indicator. Thioglycollate neutralizes the bacteriostatic effect of mercurial compounds used as the preservatives in the injection solution. If the solution used in test is a bacteriostatic ingredient then it is necessary to ascertain the bacteriostatic activity of the product.

INSTRUCTION FOR USE

- Suspend 49.0 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Dispense as desired and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.



QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder..

Appearance of prepared medium: Light amber coloured clear to slightly opalescent (turning red due to aeration on standing) gel forms in petri plates.

pH (at 25°C) : 7.1 ± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Clostridium botulinum	25763	50-100	luxuriant	35-37°C	40-48 Hours
Clostridium perfringens	12924	50-100	luxuriant	35-37°C	40-48 Hours
Clostridium sporogenes	11437	50-100	luxuriant	35-37°C	40-48 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding

This product is for research use only.