

TM 639 – THIOGLYCOLLATE AGAR

INTENDED USE

For cultivation of anaerobic microorganisms.

PRODUCT SUMMARY AND EXPLANATION

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*.

COMPOSITION

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

INTERPRETATION

Cultural characteristics observed after incubation under anaerobic conditions.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Clostridium botulinum</i>	25763	50-100	Luxuriant	>=70%	35-37°C	40-48 Hours
<i>Clostridium perfringens</i>	12924	50-100	Luxuriant	>=70%	35-37°C	40-48 Hours
<i>Clostridium sporogenes</i>	11437	50-100	Luxuriant	>=70%	35-37°C	40-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

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.

REFERENCES

1. The United States Pharmacopoeia, 1985 21st rev. U.S. Pharmacopocial Convention, Rockville, M.D.
2. Speck M. L.(ed.), 1985, Compendium of Methods for the Microbiological examination of Foods, 2nd ed., APHA, Washington, D.C.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Borkstrasse 10, 48163 Münster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019