THIOGLYCOLLATE FLUID

Sterility testin. Cultivation of anaerobes.
Thioglycollate Fluid Medium (TFM) with resarzurin is intended for the detection of anaerobic bacteria but it also enables the detection of aerobic bacteria.
This medium complies with the performacne requirements in harmonized chapters of the European, United States and Japanese Pharmacopoeia (1,2,3).

Formula in g/L

Enzymatic digest of casein	15,00	L-Cysteine	0,50
D-Glucose	5,50	Yeast extract	5,00
Sodium chloride	2,50	Sodium thioglycollate	0,50
Resarzurin	0,001	Agar	0,75

Final pH at 25°C: 7,1 ± 0,2

Principle:

This medium contains a enzymatic digest of casein which encourage the growth of most microorganisms.
The reducing agents (L-cysteine and sodium thioglycollate) and yeast extract included in the medium, favor the growth of anaerobic bacteria.
The oxydo-reduction indicator (Resarzurin) reveals the presence of oxygen (pink to mauve color).

Material required but not provided

- Bacteriology incubator

Warning and precautions

- **For in vitro diagnostic use and microbiological control**
- **For professional use only**
- This medium contains products of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not totally guarantee the absence of transmissible pathogenic agents. It is therefore recommended that these products be treated as potentially infectious and handled observing the usual safety precautions (do not ingest or inhale).
- All specimens, microbial cultures and inoculated products should be considered infectious and handled appropriately. Aseptic technique and usual precautions for handling the bacterial group studied should be observed throughout this procedure. Refer to “CLSI/NCCLSM29-A, Protection of Laboratory Workers from Instrument Biohazards and Infectious Disease Transmitted by Blood, Body Fluids and Tissue Approved Guideline- Current Revision”. For additional Handling precautions, refer to “Biosafety in Microbiological and Biomedical Laboratories, CDC/NIH, Latest Edition”, or to the regulations currently in use in each country.
- Culture media should not be used as manufacturing material or components.
- Do not use reagents after the expiry date.
- Do not use reagents if the packaging is damaged.
- Do not use media which are not homogenous (presence of lumps).
- The performance data presented were obtained using the procedure indicated in this package insert. Any change or modification in the procedure may affect the results.
- Microscopic elements, possibly coming in the medium, but this does not alter the performance of the medium

BioMaxima S.A. ul. Vetterów 5, 20-277 Lublin, Poland
tel.: 81 745 51 40; fax: 81 744 29 15; e-mail: info@biomaxima.com

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Storage / Shelf life

- Store the tubes at 2-8°C in their box until the expiry date.

Specimens:
Follow the recommendations in the current standards to perform specimen collection and preparation.

Instruction for use:
Refer to the method described in the harmonized chapters of the Pharmacopoeia.
The optimum incubation at 30-35°C.

Reading and interpretation

After incubation of bacterial growth, generally associated with turbidity of the broth. Refer to the indications in the pharmacopoeias.

Quality control
Thioglycollate Fluid Medium is designed and developed to meat to meat the strictest quality requirements.
The results of the strains tested in batch by batch quality control are given on the quality control certificate available on request.

Limitations of the method

- Growth depends on the requirements of each individual microorganisms. It is therefore possible that certain strains which have specific requirements, (substrate, temperature, incubation conditions, etc.) may not develop.
- Given the wide variety of specimens tested, it is the responsibility of the user to validate the medium for its specific intended use.

Waste disposal
Dispose of used or unused reagents as well as any other contaminated disposable material following procedures for infectious or potentially infectious products.
It is the responsibility of each laboratory to handle waste and effluents produced according to their nature and degree of hazardousness and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.

Literature references

1. European Pharmacopoeia EP 4.
2. United States Pharmacopoeia USP 27.
3. Japanese Pharmacopoeia JP 14.

Pack size	Ref.
Box of 50 tubes (5 ml)	PW 3033
Box of 50 tubes (9 ml)	PW 3153
Box of 50 glass tubes (9 ml)	PW 3157
Box of 50 tubes (10 ml)	PW 4004
Box of 50 glass tubes (10 ml)	PW 3187

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