

THIOGLYCOLLATE MEDIUM

Medium for the cultivation of both aerobic and anaerobic organisms in the performance of sterility tests, according to ISO 7937:1997.

TYPICAL FORMULA	(g/l)
Yeast Extract	5.0
Tryptone	15.0
Glucose	5.5
Sodium Chloride	2.5
Sodium Thioglycollate	0.5
L-Cysteine	0.5
Resazurin	0.001
Agar	0.75

Final pH = 7.1 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 29.5 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Sterilise in autoclave at 121°C for 15 minutes. Mix well and cool to room temperature.

DESCRIPTION

THIOGLYCOLLATE MEDIUM is prepared according to the formula specified in the ISO 7937: 1997 for the performance of sterility tests. It is suitable for both aerobic and anaerobic organisms. Thioglycollate Medium is also recommended for the cultivation of *Clostridium* species.

TECHNIQUE

Inoculate the medium with the specimen and mix thoroughly to disperse the sample. Incubate at the appropriate temperature for up to 7 days.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: clear to very slight opalescent.

Color: medium amber.

Incubation conditions: specified temperature for up to 7 days.

Microorganism	ATCC	Growth
<i>Staphylococcus aureus</i>	25923	good
<i>Candida albicans</i>	10231	good
<i>Bacillus subtilis</i>	6633	good

PERFORMANCE AND LIMITATIONS

If the upper portion of the medium is pink because of oxidation, anaerobic conditions may be restored by reheating for 10 minutes in boiling water or steam. Do not reheat more than once.

If more than one third of the medium is oxidised then it should be discarded.

Some glucose-fermenting organisms, which are able to reduce the pH of the medium to a critical level, may not survive in this medium. Early subculture is necessary to isolate these organisms.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared media at 2-8 °C.



LIOFILCHEM s.r.l.

Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY

Phone +390858930745 Fax +390858930330

Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net



REFERENCES

1. The United States Pharmacopeia XXI (1985). Sterility Testing.
2. Sealey, J.Q. (1951). Thesis of the University of Texas.
3. ISO 7937: 1997-04-15. Microbiology of food and animal feeding stuffs.

PRESENTATION

Product	REF	Σ
THIOGLYCOLLATE MEDIUM (16.9 l)	610050	500 g
THIOGLYCOLLATE MEDIUM (3.3 l)	620050	100 g

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	IVD <i>In Vitro</i> Diagnostic Medical Device
REF Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



LIOFILCHEM s.r.l.

Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY

Phone +390858930745 Fax +390858930330

Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net

