

## TRIBUTYRIN AGAR

Medium for the detection and enumeration of lipolytic bacteria and moulds in foodstuffs and other materials.

### TYPICAL FORMULA (g/L)

Peptone.....	5.0
Yeast Extract.....	3.0
Tributyrim (glyceryl tributyrate).....	10.0
Agar.....	15.0
Final pH 7.5 ± 0.2	

### DESCRIPTION

TRIBUTYRIN AGAR is a medium used for the detection and enumeration of lipolytic bacteria and moulds in foodstuffs and other materials.

### PRINCIPLE

TRIBUTYRIN AGAR consists of a stable homogenate of nutrient agar and tributyrin (glyceryl tributyrate) frequently used for the detection of the lipolytic activity of specific organisms such as staphylococci, clostridia, pseudomonads and flavobacteria.

### PREPARATION

Melt the content of the bottle in a boiling water-bath at 100°C (loosing the caps partially unscrewed) until completely dissolved. Cool to 45-50°C, mix well avoiding the formation of bubbles and aseptically distribute into Petri dishes. Allow the medium to solidify. Store the plates in tightly closed containers.

### TECHNIQUE

Inoculate the plates streaking the sample to examine onto the surface of the medium and incubate at 30+/-1 °C for three days. Otherwise prepare tenfold dilutions of the homogenized sample in quarter strength Ringer Solution and distribute 1 ml into Petri dishes. Add 15-20 ml of the melted medium, cooled to 45-50°C. Mix with circular movements, allow to solidify and incubate at 30+/-1 °C for three days.

### INTERPRETATION OF THE RESULTS

After incubation the medium appears opaque but lipolytic colonies are surrounded by a zone of clear medium.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### WARNING and PRECAUTIONS

For laboratory use.

The product doesn't contain dangerous substances according to directives 1999/45/CE and 2001/60/CE or for which exist recognized exposure limits.

### DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

### REFERENCES

1. Davey B.B. and Turner, Myfanwy (1961) *J. Appl. Bact.* 24(1). 78-82.
2. Hayes P.R. (1963) *J. Gen. Microbiol.* 30(1). 1-19.
3. Innes A.G. (1956) *J. Appl. Bact.* 19(1). 39-45.



## PRODUCT SPECIFICATIONS

### NAME

TRIBUTYRIN AGAR

### PRESENTATION

Glass bottles containing 100 ml of medium.

### PACKAGING

Code	Content	Packaging
402520	6 bottles x 100 ml	6 bottles in cardboard box

### pH OF THE MEDIUM

7.5 ± 0.2

### USE

TRIBUTYRIN AGAR is a medium used for the detection and enumeration of lipolytic bacteria and moulds in foodstuffs and other materials.

### TECHNIQUE

Refer to technical sheet of the product.

### SHELF LIFE











2 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control  
7 days at 25 ± 1 °C, in aerobiosis  
7 days at 36 ± 1 °C, in aerobiosis
- Microbiological control  
Inoculum for productivity: 10-100 UFC/ml  
Inoculum for selectivity: 10<sup>4</sup>-10<sup>5</sup> UFC/ml  
Inoculum for specificity: ≤ 10<sup>4</sup> UFC/ml  
Incubation conditions: 48 h at 32 ± 1 °C, in aerobiosis

Microorganism		Growth	Lipolytic activity
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good	+
<i>Staphylococcus aureus</i>	ATCC 25923	Good	+
<i>Escherichia coli</i>	ATCC 25922	Good	-

### TABLE OF SYMBOLS

Symbol	Meanings
	In vitro Diagnostic Medical Device
	Manufacturer
	Catalogue number
	Use by
	Temperature limitation
	Do not re-use
	Kit contents
	Consult accompanying documents
	Warning, see instructions for use
	Batch code

CE **Liofilchem s.r.l** Bacteriology ProductsVia Scozia-Zona industriale - 64026 Roseto degli Abruzzi Tel. +39.085.8930745 - Fax +39.085.8930330  
Web site: <http://www.liofilchem.net> E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)