

SLANETZ AND BARTLEY AGAR BASE SLANETZ AND BARTLEY AGAR + TTC

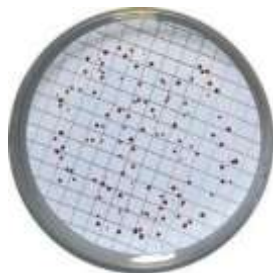
(UNI EN ISO 7899-2)
IVD in Class A, EU Reg. 2017/746

 For in vitro diagnostic use **IVD**

Selective medium for detection and enumeration of enterococci, according to ISO 7899-2.

DESCRIPTION

Slanetz Bartley Agar is a selective medium used for the isolation and enumeration of enterococci in water and foodstuffs. This medium complies with the specifications given by ISO 7899-2 and APHA.



PRINCIPLE

Tryptose provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Glucose is the fermentable carbohydrate providing carbon and energy. Dipotassium phosphate is a buffer. Sodium azide inhibits Gram-negative bacteria. TTC is reduced to formazan by the enterococci. This reaction is seen by the formation of red to maroon colonies. Agar is the solidifying agent.

Slanetz and Bartley Agar Base:

COMPOSITION	g/L
Tryptose	20.0
Yeast Extract	5.0
Glucose	2.0
Dipotassium Hydrogen Phosphate	4.0
Sodium Azide	0.4
2,3,5-Triphenyltetrazolium Chloride (TTC)	0.1
Agar	13.5

Final pH 7,2 ± 0,2 at 25°C

Supplement: TTC Soluzione 1 % (REF.16071)

COMPOSITION	
2,3,5 Trifeniltetrazolio cloruro (TTC)	1,0 g
Acqua distillata	100 mL

Prepared medium: Slanetz and Bartley Agar

COMPOSITION	
Slanetz & Bartley Agar Base	1000 mL
TTC Soluzione 1 %	10 mL

Final pH 7,2 ± 0,2 at 25°C

WARNING AND PRECAUTIONS

For in vitro diagnostic use.

Observe the precautions normally taken when handling laboratory reagents.

Dehydrated medium: HIGHLY HYGROSCOPIC. During the handling, wear dust protection mask. Avoid the eye contact. Do not use beyond the expiration date or if the product shows signs of deterioration, an altered color or has compacted.

Prepared Medium: The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

Safety Data Sheet is available on request for professional users.

All waste must be disposed of according to local directives.

STORAGE AND STABILITY

Dehydrated medium:	10-30°C
Prepared medium:	10-25°C

The product is stable until the expiration date indicated on the label under the recommended storage conditions.

PREPARATION

Dehydrated medium: Suspend 45 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add 10 ml of TTC 1% Supplement (REF. 16071). Mix well. Pour in Petri dishes.

PROCEDURE

For the examination of water, filter 100 ml of the sample through a filter membrane (0.45 µm pore diameter), and transfer this onto the surface of the medium.

For other samples, dilute as necessary and spread 0.5 ml over the agar surface. Incubate aerobically at 36 ± 2°C for 40-48 hours.

RESULTS

Typical colonies show a red, maroon or pink color, either in the centre or throughout the colony. Confirm by transferring the membrane and the colonies onto a plate of Bile Aesculin Azide Agar pre-warmed to 44°C. Incubate at 44 ± 0.5°C for 2 hours. Count all typical colonies showing a brown to black color in the surrounding medium as intestinal enterococci.

QUALITY CONTROL

Dehydrated medium: free-flowing, homogeneous, light beige.

Prepared medium: Slightly opalescent, light amber.

Typical response after incubation at 36±2°C for 24-48 hours, in aerobiosis

MICROORGANISM	GROWTH
Enterococcus faecalis ATCC 29212	Good/Red-maroon-pink
Escherichia coli ATCC 25922	Inhibited

REFERENCES

- Slanetz, L.W., and Bartley, C.H. 1957. Numbers of enterococci in water, sewage and faeces, determined by the Membrane Filter Technique with an improved medium. J. Bacteriol., 74(5): 591.
- Rodier, J. 1984. L'analyse de l'eau. Dénombrement des streptocoques fécaux présumés. (Méthode par filtration sur membrane). Dunod 7è Ed., 828-829.
- XP T90-416: March 1996. Testing water. Detection and enumeration of enterococci. General method by membrane filtration.
- UNI EN ISO 7899-2: 2003.
- Rapporto Istituzionale 07/05. Metodi analitici di riferimento per le acque destinate al consumo umano ai sensi del DL.vo 31/2001. Metodi microbiologici.

PRESENTATION	Packaging	REF.
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Dehydrated medium:
SLANETZ AND BARTLEY AGAR BASE

100 g (2.2 L)	11167
500 g (11.1 L)	10167

Supplement:
TTC SOLUZIONE 1 %
5 x 10 mL Vials 16071

(A 10 mL bottle of supplement (REF. 16071) is used to prepare 1000 mL of base medium. For each pack of 500 g of base medium Ref. 10167, approximately 2 packs of Ref. 16071 are requie).

Prepared medium:
SLANETZ AND BARTLEY + TTC

6 x 100 mL bottles	63315
6 x 200 mL bottles	63225
12 x 200 mL bottles	63525
20 pcs (60 mm ready-to-use plates)	1954747/20
20 pcs (90 mm ready-to-use plates)	2724425/20

SYMBOLS

Read the instructions

Biological hazard

CE Mark (product complies with the requirements of Regulation (EU) 746/2017)

Temperature limitation

Use by

For in vitro diagnostic use

Manufacturer