

SLANETZ AND BARTLEY AGAR + TTC (m-ENTEROCOCCUS)

Selective medium for enterococci isolation and enumeration in water and foodstuffs, according to ISO 7899-2: 2000.

TYPICAL FORMULA	(g/l)
Tryptose	20.0
Glucose	2.0
Yeast Extract	5.0
Triphenyltetrazolium Chloride (TTC)	0.1
Disodium Phosphate	4.0
Sodium Azide	0.4
Agar	13.0

Final pH = 7.2 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 44.4 g of powder in 1 liter of distilled or deionized water. Bring to boiling while agitating gently. Do not overheat. Cool to 45-50 °C. Dispense in petri dishes.

DESCRIPTION

SLANETZ AND BARTLEY AGAR is a selective medium used for isolation and enumeration of enterococci in water and foods by membrane filtration or pour plate technique prepared according to the formulation reported by ISO 7899-2:2000. Sodium azide inhibits the growth of Gram-negative and staphylococci. Enterococci reduce TTC (triphenyltetrazolium chloride) to formazan and grow with red-pink colonies.

TECHNIQUE

For enumeration in water samples:

-filter through a 0.45 µm membrane an appropriate volume of water (100-10-1-0.1-0.01 ml) according to the degree of pollution expected and lay the filter membrane on the surface of the medium.

-Incubate at 36 ± 1 for 48 hours and then count all the pinkdark red colonies, which can be considered to be enterococci.

-Confirm transferring the membrane on a plate of Bile Aesculin Azide Agar where the colonies of enterococci should develop a brown or black halo.

For enumeration of enterococci in food spread the homogenate and dilute with saline sample onto the surface of the agar medium.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: clear.

Color: light amber.

Incubation conditions: 36 ± 1°C for 48 hours.

Microorganism	ATCC Growth	Characteristics
<i>Escherichia coli</i>	25922 inhibited	
<i>Streptococcus pyogenes</i>	19615 inhibited	
<i>Enterococcus faecalis</i>	29212 good	red colonies

PERFORMANCE AND LIMITATIONS

Reactions are not sufficient for speciate organisms. Additional biochemical and serological tests are required for confirmation.

PRECAUTIONS

Slanetz and Bartley Agar + TTC contains sodium azide. This substance is harmful by inhalation and if swallowed, irritating to eyes, respiratory system and skin. Consult safety data sheet for further details. Sodium azide reacts with many metals, especially copper, to produce explosive metal azides.



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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 plates at 2-8 °C.








REFERENCES

1. Burkwall, M.K., and P.A. Hartman. (1964). *App. Microbiol.* **12**:18.
2. Slanetz, L.W., and C.H. Bartley (1957). *J. Bact.*, **74**: 591.
3. ISO 7899-2: 2000. Recherche et dénombrement des streptocoques fécaux. Partie 2: methode par filtration sur membrane.

PRESENTATION

Product	REF	Σ
SLANETZ AND BARTLEY AGAR+TTC (11.2 l)	610147	500 g
SLANETZ AND BARTLEY AGAR+TTC (2.2 l)	620147	100 g
SLANETZ AND BARTLEY AGAR+TTC (112.3 l)	6101475	5 Kg

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



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