

PRODUCT CODE: 417206

Clostridium perfringens TSC (Supplement) for microbiology

Specification

A sterile selective supplement used for isolation and presumptive identification of Clostridium perfringens, according to ISO Standards and other regulations.

Presentation

10 Freeze dried vials	Packaging Details	Shelf life	Storage
Vial with: 3 ± 0,1 g	23x50 mm glass vials, tag labelled, White plastic cap -10 vials per box.	49 months	2-25°C

Description and Technique

Description

D-cycloserine selective supplement is added to TSC Agar in order to obtain a final selective medium which has the advantage to simplify the counting of plates with high numbers of colonies because smaller colonies of C.perfringens are formed.

Sodium metabisulphite and ferric ammonium citrate are used as an indicator of sulphite reduction made by Clostridium perfringens spp. that produce black colonies in TSC agar.

Technique

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Reconstitute the vial with 6 ml of sterile diluent in aseptic conditions and add it to 100 ml of melted Agar base cooled to 50°C. Do not overheat once supplemented.

Pour the complete medium into Petri dishes (or tubes) and, once solidified on a flat surface, spread the plates either by streaking by spiral method or dilution banc.

Incubate the plates in anaerobic atmosphere at 35 ± 2°C for 20-24h. To obtain a more selective medium, incubated at 44 ° C ± 1.

Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample or the specifications.

After incubation, count all the colonies that have appeared onto the surface of the agar.

C.perfringens grows in black colonies, due to the iron sulfide precipitation.

Presumptive isolation of Clostridium perfringens must be confirmed by further microbiological and biochemical tests.

Quality control

Physical/Chemical control	Microbiological control	Sterility control
Color: White-Gray	<p>Add to 100 ml TSC Base Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely Distribute the complete medium, cooled to 50°C, into suitable containers. Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely. Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented. Subculture after incubation onto appropriate media.</p>	<p>Add 5ml of the sample to 100ml TSB and 100ml Thioglycollate Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH</p>
	<p>Microorganism</p> <p><i>Clostridium perfringens</i> ATCC® 13124, WDCM 00007, NCTC® 8237 <i>Clostridium perfringens</i> ATCC® 10543, WDCM 00174 <i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003</p>	<p>Growth</p> <p>Good - black colonies Good - black colonies Inhibited</p>

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