

Tryptose-Sulfit-Cycloserin-Agar (TSC-Agar) (TSC)

TSC
40-1241
Petri Dish, 90mm
Light beige
Dry, in closed bag, at 4 – 10°C.
4 Weeks
7.6 ± 0.2 at 25°C



Intented use and fields of application

Tryptose-Sulfit-Cycloserin-Agar is used for the presumptive identification and enumeration of Clostridium perfringens and other sulfite-reducing Clostridia in food, water and clinical samples. It contains nutrients to promote the growth of Clostridia and ensure their rapid proliferation. The inclusion of Ammonium-Iron-(III)-Citrate and the Sodium Meta bisulphite are indicators of sulphite reduction by Clostridium perfringens which produces black colonies.

Typical composition in g/l

in g per 1 litre of nutrient mediumTryptose15.0Soya Bean Peptone5.0Yeast Extract5.0Sodium Meta bisulphite, anhydrous1.0Ammonium Iron (III) Citrate1.0D-Cycloserine0.4Agar12.0

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^{*}Adjusted as required to meet performance standards



Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements ISO 11133.

Productivity

Incubation conditions: 21 ± 3 hours at 44 ± 1 °C; Inoculation concentration 80–120 CFU; Anaerobic incubation.

Organism	Type Strain	Specification	Colony morphology
Clostridium perfringens	ATCC 13124 / WDCM 00007	50 - 130 %	Black colonies

Selectivity

Incubation conditions: 21 ± 3 Hours at 44 ± 1 °C; Inoculum concentration: 10,000 – 1,000,000 CFU; Anaerobic incubation

Organism	Type Strain	Specification	Colony morphology	
Bacillus subtilis	ATCC 6633 / WDCM 00003	Complete inhibition.	-	

Microbial Contamination

Incubation conditions: 2–7 days at 20–25 °C and 5–7 days at 30–35 °C

Specification

No microbial contamination

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