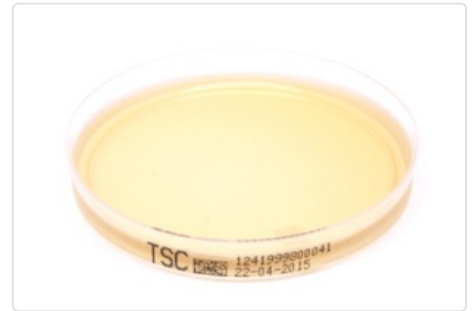


## Tryptose-Sulfite-Cycloserin-Agar (TSC)

<b>Shorthand symbol:</b>	TSC
<b>Item number:</b>	40-1241
<b>Format:</b>	Petri Dish, 90mm
<b>Colour:</b>	Light beige
<b>Storage conditions:</b>	Dry, in closed bag, at 4 – 10°C.
<b>Shelf-life:</b>	4 Weeks
<b>pH:</b>	7.6 ± 0.2 at 25°C



### Intended use and fields of application

Tryptose-Sulfite-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 medium

Tryptose	15.0
Soya Bean Peptone	5.0
Yeast Extract	5.0
Sodium Meta bisulphite, anhydrous	1.0
Ammonium Iron (III) Citrate	1.0
D-Cycloserine	0.4
Agar	12.0

\*Adjusted as required to meet performance standards

## Microbiological quality control

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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

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No microbial contamination