TSC Agar (Base)

Tryptose Sulfite Cycloserine Agar Base

TN1241 500 g
TN1241-01 5 kg

Intended use

Used to detect Clostridium perfringens and other sulfite-reducing clostridia taken from foodstuffs and water. Microbiological quality control is carried out in accordance with ISO 11133 specifications in an EN ISO/IEC 17025 accredited test laboratory.

Form

Powder

Colour

Beige

Storage

Dry, tightly closed, at 10...30 °C.

Shelf life

3 years

Directions

Suspend 19.5 g in 500 ml distilled water and heat until completely dissolved. Autoclave at 121 °C for 15 minutes and cool down to 50 °C. Dissolve one bottle of TSC Selective Supplement (TN1333) according to instructions and add to 500 ml sterile cooled base medium. Mix well and pour plates.

Typical composition

Component	g/l
Tryptose	15
Soymeal peptone	5
Yeast extract	5
Sodium disulfite anhydrous (sodium metabisulfite anhydrous)	1
Ammonium iron (III) citrate	1
Agar	12

Final pH at 25 °C

7.6 ± 0.2

Microbiological quality control

in combination with TSC selective supplement
Incubation: anaerobic, 18-22 h at 37 ± 1 °C

Test strain	CFU/plate	Recovery Test/Inoculum in % *)	Colony morphology
Clostridium perfringens ATCC 12916 WDCM 00080	80-120	≥ 50 %	black
Clostridium perfringens ATCC 13124 WDCM 00007	80-120	≥ 50 %	black
Clostridium sordellii ATCC 9714	80-120	≥ 50 %	black
Clostridium bifermentans ATCC 638	80-120	≥ 50 %	black
Escherichia coli ATCC 25922 WDCM 00013	10^4-10^6	≤ 0.1 %	no growth
Escherichia coli ATCC 8739 WDCM 00012	10^4-10^6	≤ 0.1 %	no growth

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TN1241 500 g
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Incubation: anaerobic, 18-22 h at 44 ± 1 °C

Test strain	CFU/plate	Recovery Test/Inoculum in % *)	Colony morphology
Clostridium perfringens ATCC 12916 WDCM 00080	80-120	≥ 50 %	black
Clostridium perfringens ATCC 13124 WDCM 00007	80-120	≥ 50 %	black
Clostridium perfringens ATCC 10543 WDCM 00174	80-120	≥ 50 %	black
Bacillus subtilis ATCC 6633 WDCM 00003	10^4-10^6	≤ 0.1 %	no growth

*) Reference medium used: Blood Agar
A recovery rate of e.g. ≥ 50 % corresponds to a productivity ratio of PR ≥ 0.5.

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