	Document Owner Department: QC	BT-SPEC-0174
		Page 1 of 5
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
PERFRINGENS AGAR BASE (TSC & SFP) CM0587		

## PERFRINGENS AGAR BASE (TSC & SFP)

CM0587

### Typical Formula\*

Tryptose	grams per litre	15.0
Soya peptone		5.0
Yeast extract		5.0
Sodium metabisulphite		1.0
Ferric ammonium citrate		1.0
Agar		19.0

\* adjusted as required to meet performance standards

### Directions

Suspend 23 grams in 500ml of distilled water and heat gently until the agar is completely dissolved. Sterilize by autoclaving at 121°C for 10 minutes. Allow the medium to cool to 50°C and add 25ml of Egg Yolk Emulsion (SR0047) and the rehydrated contents of one vial of TSC Supplement (SR0088) or SFP Supplement (SR0093). Mix and pour plates.

### Physical Characteristics

Straw, free-flowing powder  
 Colour on reconstitution - straw/green  
 Moisture level - less than or equal to 7%  
 pH - 7.6 ± 0.2 at 25°C  
 Clarity - clear  
 Gel strength - firm, comparable to 19g/litre of agar

### Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar or Columbia Blood Agar Base enriched with 5% v/v horse blood, where appropriate

<b>ThermoFisher</b> SCIENTIFIC	Document Owner Department: QC	BT-SPEC-0174 Page 2 of 5
<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>PERFRINGENS AGAR BASE (TSC &amp; SFP) CM0587</b>		

## Reactions after incubation at 37 ± 2°C for 24 hours under anaerobic conditions

Tested with the addition of TSC Supplement SR0088 and Egg Yolk Emulsion SR0047

### Pour plate technique

Medium is challenged with 10-100 colony-forming units

<i>Clostridium perfringens</i>	ATCC®13124	1-3mm black colonies with halo
<i>Clostridium bifermentans</i>	NCTC506	0.5-2mm black colonies with halo

Plates overlaid with TSC Agar without egg yolk.

A satisfactory result is represented by recovery equal to or greater than 70% of the control medium.

For *Clostridium bifermentans* NCTC506, a satisfactory result is represented by recovery equal to or greater than 30% of the control medium.

### Surface plate technique

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Clostridium tetani</i>	ATCC®9441	No growth
<i>Proteus mirabilis</i>	ATCC®29906	No growth or ppt-3mm translucent colonies

Negative strains are inhibited or shall produce at least a 4 log (10) reduction.

## Testing has been performed in accordance with ISO11133:2014

### Table E


ISO Standard 7937 tested with the addition of TSC Supplement SR0088

## Reactions after incubation at 37 ± 2°C for 20 ± 2 hours under anaerobic conditions

### Pour plate technique

Medium is challenged with 50-120 colony-forming units

<i>Clostridium perfringens</i>	ATCC®13124	WDCM00007	1-3mm black colonies
<i>Clostridium perfringens</i>	ATCC®12916	WDCM00080	1-3mm black colonies

	Document Owner Department: QC	BT-SPEC-0174 Page 3 of 5
<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>PERFRINGENS AGAR BASE (TSC &amp; SFP) CM0587</b>		

Plates overlaid with TSC Agar.

A satisfactory result is represented by recovery equal to or greater than 50% of the control medium.

#### Surface plate technique

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	No growth
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	No growth

Negative strains are inhibited.

ISO Standard 15213 tested using unsupplemented medium

#### Reactions after incubation at 37 ± 2°C for 48 ± 2 hours under anaerobic conditions

Medium is challenged with 50-120 colony-forming units

#### Pour plate technique

<i>Clostridium perfringens</i>	ATCC®13124	WDCM00007	1-3mm black colonies
<i>Clostridium perfringens</i>	ATCC®12916	WDCM00080	1-3mm black colonies

A satisfactory result is represented by recovery equal to or greater than 70% of the control medium.

#### Surface plate technique

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	0.25-1mm white/cream colonies
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	0.25-1mm white/cream colonies


#### Table F

ISO Standard 14189 tested with the addition of TSC Supplement SR0088

#### Reactions after incubation at 44 ± 2°C for 21 ± 3 hours under anaerobic conditions

#### Filtration technique

Medium is challenged with 50-120 colony-forming units

	Document Owner Department: QC	BT-SPEC-0174
		Page 4 of 5
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
PERFRINGENS AGAR BASE (TSC & SFP) CM0587		

<i>Clostridium perfringens</i>	ATCC®13124	WDCM00007	1-3mm black colonies
<i>Clostridium perfringens</i>	ATCC®12916	WDCM00080	1-3mm black colonies
<i>Clostridium perfringens</i>	ATCC®10543	WDCM00174	1-3mm black colonies


Plates overlaid with TSC Agar.

A satisfactory result is represented by recovery equal to or greater than 50% of the control medium.

Medium is challenged with 1E+04 to 1E+05 colony-forming units

<i>Bacillus subtilis</i>	ATCC®6633	WDCM00003	No growth
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Negative strains are inhibited

	Document Owner Department: QC	BT-SPEC-0174
		Page 5 of 5
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
PERFRINGENS AGAR BASE (TSC & SFP) CM0587		

## Revision History

Section / Step	Description of Change	Reason for Change	Reference
Creation of ISO11133 section	Update to include testing of ISO11133:2014	Change control	BT-CC-1358
Tested with the addition of TSC Supplement SR0088 and Egg Yolk Emulsion SR0047	Change of <i>Proteus</i> spp. from complete inhibition to 4 log (10) reduction	Change control	BT-CC-2226