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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
THIOGLYCOLLATE FLUID MEDIUM USP (CM0173)		

THIOGLYCOLLATE FLUID MEDIUM USP

CM0173

Typical Formula*

Yeast extract	grams per litre	5.0
Tryptone		15.0
Glucose		5.5
Sodium thioglycollate		0.5
Sodium chloride		2.5
L-Cystine		0.5
Resazurin		0.001
Agar		0.75

* adjusted as required to meet performance standards

Directions

Suspend 29.75g in 1 litre of distilled water. Bring to the boil to dissolve completely. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes. Cool to approximately 25°C. If more than 20% of the medium is pink (due to oxidation) restore anaerobic conditions by reheating for 10 minutes in boiling water or steam. DO NOT REHEAT MORE THAN ONCE.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw/yellow with red layer
 Moisture level - less than 7%
 pH 7.1 ± 0.2 at 25°C
 Clarity - clear
 Standing test - passes test
 Gel strength - semi-solid, comparable to 0.75g/litre of agar

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Microbiological Tests Using Optimum Inoculum Dilution

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

Prepare medium in 20ml volumes in 150 x 24mm test tubes with caps.

Reactions after incubation at 33-37°C for 48 hours

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

<i>Staphylococcus aureus</i>	ATCC® 25923	Turbid growth and/or single colonies
<i>Bacteroides fragilis</i>	ATCC® 25285	Turbid growth and/or single colonies

A satisfactory result is represented by visible growth.

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 37 ± 2°C for 21 ± 3 hours

Medium is challenged with 10-100 colony-forming units

<i>Clostridium perfringens</i>	ATCC® 13124	WDCM00007	Turbid growth and/or single colonies
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A satisfactory result is represented by visible growth.

Testing performed in accordance with USP/EP/BP/JP

Reactions after incubation at 30-35°C for 3 days

<i>Staphylococcus aureus</i>	ATCC® 6538	Turbid growth and/or single colonies
<i>Kocuria rhizophila</i>	ATCC® 9341	Turbid growth and/or single colonies
<i>Pseudomonas aeruginosa</i>	ATCC® 9027	Turbid growth and/or single colonies
<i>Clostridium sporogenes</i>	ATCC® 19404	Turbid growth and/or single colonies
<i>Clostridium sporogenes</i>	ATCC® 11437	Turbid growth and/or single colonies
<i>Bacteroides vulgatus</i>	ATCC® 8482	Turbid growth and/or single colonies

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Reactions after incubation at 20-25°C for up to 3 days

<i>Bacillus subtilis</i>	ATCC® 6633	Turbid growth and/or single colonies
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Reactions after incubation at 20-25°C for 5 days

<i>Aspergillus brasiliensis</i>	ATCC® 16404	White mycelia with or without black spores
<i>Candida albicans</i>	ATCC® 10231	Flocculent growth

A satisfactory result is represented by visible growth.

The Microbiological Quality Control of this product complies with the following current pharmacopoeia;

British Pharmacopoeia

European Pharmacopoeia

The Japanese Pharmacopoeia

The United States Pharmacopoeia

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	- Update to new document template - Update to test specification	Change control	BT-CC-1498