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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
STUART TRANSPORT MEDIUM (MODIFIED) CM0111		

## STUART TRANSPORT MEDIUM (MODIFIED)

CM0111

### Typical Formula\*

	grams per litre
Sodium glycerophosphate	10.0
Sodium thioglycollate	0.5
Cysteine hydrochloride	0.5
Calcium chloride	0.1
Methylene blue	0.001
Agar	5.0

\* adjusted as required to meet performance standards

### Directions

Suspend 16g in 1 litre of distilled water. Bring to the boil to dissolve completely. Distribute into small screw-cap bottles. Screw down the caps firmly on the completely filled bottles. Sterilize by autoclaving at 121°C for 15 minutes. When sufficiently cool to handle, mix by inversion.

### Physical Characteristics

Blue/green, free-flowing powder  
 Colour on reconstitution - off white  
 Moisture level - less than or equal to 15%  
 pH - 7.4 ± 0.2 at 25°C  
 Clarity - clear  
 Gel strength - semi-solid, comparable to 5.0g/litre of agar

### Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Columbia Blood Agar Base

### Reactions after 2 days storage in the medium at 20 ± 2°C

Medium is challenged with 1E+03 to 6E+03 colony-forming units

<i>Streptococcus pyogenes</i>	ATCC®19615	White colonies, β haemolysis.
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Medium is challenged with 1E+05 to 6E+05 colony-forming units

<i>Streptococcus pneumoniae</i>	ATCC®6303	Grey/green mucoid colonies
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**Reactions after 3 days storage in the medium at 20 ± 2°C**

Medium is challenged with 1E+05 to 5E+05 colony-forming units

*Corynebacterium diphtheriae gravis* ATCC®19409                      Grey/white colonies

Determine the viability of the test organisms using 200µl of inoculum on cotton wool swabs after 2 and 3 days storage in the medium at 20 ± 2°C. Establish the viability on blood agar or chocolate plates before and after immersion in the medium. There shall be no loss of viability as shown on blood agar or chocolate plates after 24-48 hours incubation at 37°C.

The medium stored for 7 days at room temperature shall show no oxygenation of the medium, indicator turning blue in the upper layer or throughout the medium.

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## Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	-Update to new template -Update to test specification	Change control	BT-CC-1746
Entire Document	Correction of typographical/minor errors. Addition of Control Media and Result Criteria.	Change control	BT-CC-1931
Physical Characteristics	Change of moisture from 20% to 15%.	Change control	BT-CC-1931
Microbiological Tests	Correction of inoculum for ATCC®19615 from $5.0 \times 10^3$ colony-forming units to $6E+03$ colony-forming units. Correction of inoculum for ATCC®6303 from $5.0 \times 10^5$ colony-forming units to $6E+05$ colony-forming units.	Change control	BT-CC-1931