	Document Owner Department: QC	BT-SPEC-0127
		Page 1 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
PLATE COUNT AGAR (ISO) (CM0325)		

**PLATE COUNT AGAR (ISO)**  
**(Tryptone Glucose Yeast Agar)**

**CM0325**

**Formula**

Enzymatic digest of casein	grams per litre	5.0
Yeast extract		2.5
Glucose		1.0
Agar		9.0

**Directions**

Suspend 17.5g in 1 litre of distilled water. Dissolve by bringing to the boil with frequent stirring, mix and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes.

**Physical Characteristics**

Straw, free flowing powder  
 Colour on reconstitution - straw 1-2  
 Moisture level - less than 7%  
 pH - 7.0 ± 0.2 at 25 °C  
 Clarity - clear  
 Gel Strength - firm, comparable to 9.0g/litre Agar

Thermophiles and Mesophiles shall be absent after incubation at 55°C and 37°C for 3 days.

**Microbiological Tests Using Optimum Inoculum Dilution**

Control Medium: Tryptone Soya Agar

Medium is challenged with 10-100 colony forming units

Standard plate counts are performed using Quality Control Organisms

**Reactions after incubation at 30 ± 2°C for 48 ± 2 hours**

Pour plate technique

<i>Staphylococcus aureus</i>	ATCC® 6538	0.5-2mm straw colonies
<i>Staphylococcus aureus</i>	ATCC® 6538P	0.5-2mm straw colonies

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

<b>ThermoFisher</b> S C I E N T I F I C	Document Owner Department: QC	BT-SPEC-0127 Page 2 of 3
<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>PLATE COUNT AGAR (ISO) (CM0325)</b>		

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**Testing performed in accordance with ISO11133:2014**


**Reactions after incubation at 30 ± 2°C for 72 ± 3 hours**

Pour plate technique

Medium is challenged with 50-120 colony forming units

<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	1-3mm straw colonies
<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	1-3mm straw colonies
<i>Staphylococcus aureus</i>	ATCC® 25923	WDCM00034	0.5-2mm straw colonies
<i>Bacillus subtilis</i>	ATCC® 6633	WDCM00003	0.5-2mm straw colonies

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

	Document Owner Department: QC	BT-SPEC-0127
		Page 3 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
PLATE COUNT AGAR (ISO) (CM0325)		

#### Revision History

Section / Step	Description of Change	Reason for Change	Reference
N/A	Update to ISO	Change control	BT-CC-1902