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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
WATER PLATE COUNT AGAR (ISO) CM1012		

WATER PLATE COUNT AGAR (ISO)

CM1012

Typical Formula*

Yeast extract	grams per litre	3.0
Tryptone		6.0
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 24g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri dishes or hold at 45°C when using the pour plate technique.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw 2-3
 Moisture level - less than 7%
 pH 7.2 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Water Plate Count Agar (ISO)


Inoculation using pour plate technique

Medium is challenged with 10-300 colony-forming units

Reactions after incubation at 36 ± 2°C for 44 ± 4 hours

<i>Enterococcus faecalis</i>	ATCC® 19433	1-2mm straw colonies
<i>Staphylococcus aureus</i>	ATCC® 9144	0.5-2mm straw colonies
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	0.5-2mm straw colonies
<i>Proteus mirabilis</i>	NCTC 10975	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.

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Reactions after incubation at 22 ± 2°C for 68 ± 4 hours

<i>Escherichia coli</i>	ATCC® 25922	1-3mm straw colonies
<i>Enterococcus faecalis</i>	ATCC® 19433	1-2mm straw colonies
<i>Staphylococcus aureus</i>	ATCC® 9144	0.5-2mm straw colonies
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	0.5-2mm straw colonies
<i>Proteus mirabilis</i>	NCTC 10975	0.5-2mm straw colonies
<i>Bacillus subtilis</i>	ATCC® 6633	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.

Testing performed in accordance with ISO11133:2014


Reactions after incubation at 36 ± 2°C for 44 ± 4 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>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.

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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-1210