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PALCAM AGAR BASE CM0877		

PALCAM AGAR BASE

CM0877

Typical Formula*

	grams per litre
Columbia Blood Agar Base	39.0
Yeast extract	3.0
Glucose	0.5
Aesculin	0.8
Ferric ammonium citrate	0.5
Mannitol	10.0
Phenol red	0.08
Lithium chloride	15.0

* adjusted as required to meet performance standards

Directions

Suspend 34.5g in 500ml of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add the contents of 1 vial of PALCAM Selective Supplement (SR0150E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw/pink, free-flowing powder
 Colour on reconstitution - red
 Moisture level - less than or equal to 7%
 pH - 7.2 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 10.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution


Control Medium: Columbia Blood Agar Base enriched with 5% v/v horse blood

Reactions after incubation at 37°C for 48 hours under microaerophilic conditions

Tested with the addition of PALCAM Selective Supplement SR0150

Medium is challenged with 10-100 colony-forming units

<i>Listeria monocytogenes</i>	ATCC®7644	0.5-2mm brown/black colonies and halo
<i>Listeria monocytogenes</i>	ATCC®13932	0.5-2mm brown/black colonies and halo

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

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

<i>Enterococcus faecalis</i>	ATCC® 29212	No growth
<i>Enterococcus faecalis</i>	ATCC® 19433	No growth
<i>Staphylococcus aureus</i>	ATCC® 25923	No growth
<i>Escherichia coli</i>	ATCC® 25922	No growth
<i>Escherichia coli</i>	ATCC® 8739	No growth

Negative strains are inhibited.


Reactions after incubation at 37°C for 48 hours under aerobic conditions

Tested with the addition of PALCAM Selective Supplement SR0150

Medium is challenged with 10-100 colony-forming units

<i>Listeria monocytogenes</i>	ATCC® 7644	0.5-2mm brown/black colonies and halo
<i>Listeria monocytogenes</i>	ATCC® 13932	0.5-2mm brown/black colonies and halo

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

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological characteristics	Updated colony morphology for <i>Listeria</i> species incubated under microaerophilic conditions	Change control	MOC-2024-0712
	Added section for reactions under aerobic conditions		