

1.12122.0010

Microbiology

PALCAM-Listeria selektive supplement according to VAN NETTEN et al.

Contents: 10 vials (lyophilisate), each for the preparation of 5.0 l
**PALCAM-Listeria selective agar or L-PALCAM-Listeria selective
 enrichment broth according to VAN NETTEN et al.**

Application

Selective supplement for PALCAM-Listeria selective agar, or
 L-PALCAM-Listeria selective enrichment broth.

Principle

PALCAM-Listeria selective supplement is a mixture of three different
 antibiotics in lyophilized form. It inhibits to a large extent the accompa-
 nyng flora in the selective culture of *Listeria monocytogenes*.

Composition (per vial)

Polymyxin B sulfate	5.0 mg
Ceftacidime	12.0 mg
Acriflavine	2.5 mg

Preparation of PALCAM agar and L-PALCAM broth

1. Suspend 35.9 g PALCAM agar or 23.7 g L-PALCAM broth in
500 ml demineralized water and heat in a boiling water bath or
steam bath until completely dissolved.
2. Autoclave for 15 minutes at 121°C.
3. Cool to under 50 °C.
4. Dissolve the lyophilisate in its vial by adding 1 ml sterile distilled
water.

To prepare 500 ml PALCAM agar or L-PALCAM broth, add the
 contents of a supplement vial to the sterilized and cooled (to under
 50 °C) base culture medium. If necessary, rinse out the supplement
 vial with 1 ml sterile distilled water. Gently tilt or upturn the vessel
 to ensure homogeneous mixing of the supplement with the culture
 medium solution.

pH of ready-to-use PALCAM agar:	7.2 ± 0.2
pH of ready-to-use L-PALCAM broth:	7.4 ± 0.2

5. Pour the PALCAM agar onto plates and allow to solidify.

Application of L-PALCAM broth

Add sample to the L-PALCAM-Listeria selective broth (normally 25 g to
 225 ml broth) and incubate for up to 48 h at 30 °C.

Spread ca. 0.1 ml of the enrichment broth over the surface of a *Listeria*
 selective agar, e.g. PALCAM agar or OXFORD agar, so that well iso-
 lated colonies can be obtained.

Application and Evaluation of PALCAM agar

Incubate the culture medium for up to 48 h at 30 °C or 37 °C, if pos-
 sible under microaerophilic conditions (with e.g. Anaerocult C, or
 Anaerocult C mini).

Listeria monocytogenes grows in grey-green coloured colonies with a
 black-brown areola.

If the colonies are very close together, the whole culture medium beco-
 mes black-brown.

PALCAM-Listeria selective agar is highly selective. Should, however,
 mannitol-positive enterococcus or staphylococcus develop, they will
 appear as yellow colonies with a yellow areola.

A more specific biochemical identification should subsequently be
 carried out.

Ordering information

1.11755.0500 PALCAM-Listeria selective agar acc. to van NETTEN et al.	500 g
1.10823.0500 L-PALCAM Listeria selective enrichment broth (base) acc. to van NETTEN et al.	500 g
1.07004.0500 OXFORD Agar	500 g
1.16275.0001 Anaerocult® C	25 Tests
1.13682.0001 Anaerocult® C mini	25 Tests

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