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Microbiology

Oxford-Listeria-Selective-Supplement

Contents: **13 vials (lyophilisate) for the preparation of 6.5 l Oxford-Listeria-Selective-Agar**

Application

Selective-Supplement for preparing Oxford-Listeria-Selective-Agar (Base)

Principle

Oxford-Listeria-Selective-Supplement is a mixture of different antibiotics in the form of a lyophilisate. It suppresses virtually the growth of accompanying microorganisms when culturing Listeria.

Composition (per vial)

Cycloheximide	200.0 mg
Colistin sulfate	10.0 mg
Acriflavine	2.5 mg
Cefotetan	1.0 mg
Fosfomycin	5.0 mg

Preparation

1. Fill in the bottle of lyophilisate 5 ml mixture 1:1 of ethanol and sterile distilled water and dissolve the lyophilisate.
   To prepare 500 ml of Oxford-Listeria-Selective-Agar add the dissolved lyophilisate to the sterile culture medium base cooled to a temperature of 50 °C. Mix homogeneously the selective supplement into the culture medium solution by carefully swirling.
   pH of the ready-to-use medium: 7.0 ± 0.2
2. Pour the medium into plates and leave to solidify.

Experimental procedure and evaluation

Incubate at 37 °C up to 48 h. Listeria monocytogenes produces brown-green coloured colonies with a black halo (esculin splitting). Further biochemical identification must be done.

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