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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
EGG YOLK EMULSION SR0047C		

EGG YOLK EMULSION

SR0047C

Description

An emulsion of egg yolk for use in culture media. It may be added directly to nutrient media for the identification of *Clostridium*, *Bacillus* and *Staphylococcus* species by their lipase activity.

Directions

Suspend 21.5g of MYP Agar (CM0929) in 450ml of distilled water and bring gently to the boil to dissolve. Sterilize by autoclaving at 121°C for 15 minutes. Cool to approximately 50°C and aseptically add 50ml of Egg Yolk Emulsion (SR0047C) and the contents of one vial of Polymyxin B Supplement (SR0099E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Alternatively, suspend 8g of Blood Agar Base (CM0055) in 200ml of distilled water and add 2g of sodium chloride. Sterilize by autoclaving at 121°C for 15 minutes. Cool to approximately 50°C and aseptically add 20ml Egg Yolk Emulsion (SR0047C). Mix well and pour into sterile Petri dishes.

Physical Characteristics

Colour - yellow

Clarity - opaque

Separation may occur on storage. This does not affect the quality of the product.

Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar or Columbia Blood Agar Base enriched with 5% v/v horse blood, where appropriate

Tested in MYP Agar CM0929 with the addition of Polymyxin B Supplement SR0099 and 10% v/v Egg Yolk Emulsion SR0047

Reactions after incubation at 30°C for 24 hours

Medium is challenged with 10-100 colony-forming units

Bacillus cereus ATCC®10876 3-10mm bright pink colonies with halo

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

Tested in Blood Agar Base CM0055 with the addition of 1% w/v sodium chloride and 10% v/v Egg Yolk Emulsion SR0047

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

Reactions after incubation at 37°C for 24 hours

Inoculation using diminishing sweep technique

<i>Staphylococcus aureus</i>	ATCC®25923	1-2mm cream colonies, opaque zones
<i>Staphylococcus saprophyticus</i>	ATCC®15305	Pinpoint-0.5mm cream colonies, no zones

Reactions after incubation at 37°C for 24 hours under anaerobic conditions

<i>Clostridium perfringens</i>	ATCC®13124	1-2mm cream colonies, opaque zones
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A satisfactory result is represented by reactions in accordance with the specification.

Lecithinase positive strains shall produce zones of opacity around the colonies.

Lecithinase negative strains shall not produce zones of opacity.

The opacity of the medium shall be comparable to the standard after incubation.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Update to new document format and correction of typographical/minor errors.	Change control	MOC-2022-0706