

## Egg Yolk Emulsion

### Intended Use

A sterile, stabilized emulsion of egg yolk recommended for use in culture media.

### Summary

Egg yolk emulsion is particularly rich in lecithin, a substrate for the enzyme lecithinase. Production of lecithinase is a differentiating characteristic shared by a number of bacteria species including *Clostridium*, *Bacillus* and *Staphylococcus*.

### Principle

Some bacteria produce lecithinases enzymes that split lipoprotein complexes in egg yolk and produce opalescence in media containing egg yolk. Wide zones of opalescence around colonies show lecithinase activity.

### Reagents / Contents

Microexpress® Egg Yolk Emulsion is pre-diluted Supplement.

Each 100 mL vial contains:

Egg yolk	30 mL
Sterile Saline	70 mL

### Storage and Stability

1. Store the Microexpress® Egg Yolk Emulsion Supplement kit at 2°C-8°C, away from light.
2. Stability of the Microexpress® Egg Yolk Emulsion Supplement kit is as per the expiry date mentioned on the label.

### Directions

1. Bring the vial to room temperature and shake well to attain a uniform emulsion.
2. Aseptically add 50 mL emulsion to sterile, molten Baird Parker Agar Base (63 g/950 mL), Mannitol Salt Agar Base (111 g/950 mL) and *Bacillus Cereus* Agar Base (41 g/950 mL) or 100 mL emulsion to sterile, molten McClung Toabe Agar Base (75.1g/900 mL).
3. Mix well and dispense as desired.

### Cultural Response

Egg yolk emulsion is added to various media used to identify *Clostridium*, *Bacillus* and *Staphylococcus* based on their lecithinase activity. Cultural characteristics were observed after an incubation of 24-48 hours at 30°C-35°C when added to the following media bases (for selective isolation of the respective organism):

1. Baird parker agar base along with 3.5% Potassium Tellurite solution.
2. *Bacillus cereus* agar base with Polymixin B selective supplement
3. McClung Toabe agar base

### Quality Control

#### Cultural Response on Baird Parker Agar Base

Organism (ATCC)	Growth	Colour of Colony	Lecithinase Production
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Good	Grey black shiny	+
<i>Bacillus spizizenii</i> (6633)	Partial inhibition	Dark Brown matt	-
<i>Escherichia coli</i> (25922)	Complete inhibition	-	-

#### Cultural Response on *Bacillus Cereus* Agar Base

Organism (ATCC)	Growth	Colour of Colony	Lecithinase Production
<i>Bacillus cereus</i> (11778)	Good	Blue	+
<i>Bacillus spizizenii</i> (6633)	Good	Straw coloured	-
<i>Escherichia coli</i> (25922)	Complete inhibition	-	-

**Cultural Response on McClung Toabe Agar Base**

Organism (ATCC)	Growth	Colour of Colony	Lecithinase Production
<i>Clostridium perfringens</i> (13124)	Good	White	+

**Key**

(+): Lecithinase production indicated by clear halo around the colony.

(+\*): Lecithinase production indicated by opaque zone around the colony.

**Remarks**

1. Do not use cracked or defected vials.
2. Good laboratory practices and hazard precautions must be observed at all times.

**Warranty**










This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

**References**

1. Practical Medical Microbiology, Mackie & McCartney, 13th Edition 1989, Edited by J.G. Collee, J.P. Daguid.
2. Data on file: Microxpress®, A division of Tulip Diagnostics (P) Ltd.

**Product Presentation:**

Cat No.	Product description	Pack Size
204050370100	Media Selective Supplement	5 x 100 mL

 Temperature limit	 Manufacturer	 Batch code	 Contains sufficient for <n> tests	 This way up
 Catalogue Number	 Consult Instructions for use	 Use-by date	 Date of Manufacture	<b>Media Supplements</b> Dehydrated Culture Media Supplements for Microbiological applications

Revision: 1125/VER-03

**Disclaimer**

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.