

# MUP Selective Supplement

Supplement for the preparation of TOS-MUP Medium (ISO 29981/IDF 220: 2010).

## Mode of Action

One vial of MUP Selective Supplement contains 25 mg lithium mupirocin in lyophilized form. This quantity is sufficient to prepare 500 ml TOS-MUP medium.

Lithium mupirocin selectively inhibits the growth of typical lactic acid bacteria from dairy products, such as lactobacilli, lactococci, streptococci and leuconostocs, while bifidobacteria can grow uninhibited.

## Typical Composition (per vial)

Lithium mupirocin 25 mg

## Final Concentration (per liter)

Lithium mupirocin 50 mg (conforms with ISO 29981/IDF 220: 2010)

## Preparation

Add 25 ml of sterile, deionized water to the lyophilizate in the original vial and dissolve by carefully swirling. Add the solved supplement to the base culture medium that has been cooled to  $48^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . To a preparation with 95 ml of base culture medium add 5 ml of supplement solution. To a preparation with 190 ml of base culture medium add 10 ml of supplement solution. Carefully mix the supplement solution into the base culture medium, avoiding the formation of air bubbles.

## Storage

The lyophilizate is stable until the stated expiry date if stored in the original vial at a temperature of +2 to +8°C.

The dissolved supplement should be added to the base culture medium immediately.

The dissolved supplement is stable for 2 weeks if stored in the refrigerator (+2 to +8°C) and for 3 months if stored at -20°C.

## Literature

Rada, V., Koc, J. The use of mupirocin for selective enumeration of bifidobacteria in fermented milk products. *Milchwissenschaft*. 55: 65-67 (2000)

Zitz, U., Kneifel, W., Weiss, H., Wilrich, P.-Th. - Selective Enumeration of Bifidobacteria in Dairy Products: Development of a Standard Method. *Bulletin Int. Dairy Fed.* 411: 3-20 (2007)

ISO 29981 / IDF 220. Milk products - Enumeration of presumptive bifidobacteria - Colony count technique at 37°C (2010)

## Ordering Information

Product	Ordering No.	Pack size
MUP Selective Supplement	1.00045.0010	1 x 10 vials
TOS Propionate Agar Base	1.00043.0100	100 g
TOS Propionate Agar Base	1.00043.0500	500 g
Anaerobic Jar	1.16387.0001	1 jar
Anaerocult® A	1.13829.0001	1 x 10 envelopes
Anaerotest®	1.15112.0001	1 x 50 stripes