

Campylobacter Supplement, Butzler (iS47008)

An improved selective supplement for Campylobacter Blood-Free Selective Agar Base, based on formulation by Bolton, for the selective isolation of *Campylobacter* species.

Industry: Water / Food

Description

The improved Campylobacter Butzler Supplement is formulated based on Bolton's recipe and is designed for selective isolation of *Campylobacter* species when used with Campylobacter Blood-Free Selective Agar Base. It differs from the Skirrow formula, providing selective isolation at 37 °C, enabling the growth of *Campylobacter* spp strains that do not thrive at 42 °C, such as *Campylobacter fetus* subsp. *fetus*.

The supplement's key components include Bacitracin, which interferes with bacterial cell wall synthesis, primarily targeting Gram-positives and some Gram-negatives; Cycloheximide, an antimycotic agent inhibiting protein synthesis in eukaryotic cells; Colistin, a polymyxin antibiotic effective against most Gram-negative *bacilli*; Cephazolin, a first-generation cephalosporin antibiotic; and Novobiocin, an aminocoumarin antibiotic inhibiting DNA gyrase and affecting cell wall, protein, and nucleic acid synthesis. Novobiocin sensitivity is observed in Gram-positives and some Gram-negatives.

Content per Vial

1 Vial for 500 ml of culture medium.

Bacitracin	12500 IU
Cycloheximide	25 mg
Colistin sulphate	5000 IU
Cephazolin sodium	7.5 mg
Novobiocin	2.5 mg

Directions

Warm the Campylobacter Selective Supplement, Butzler vial to room temperature. Dissolve the vial's contents in 5 ml of sterile distilled water and mix thoroughly. Filter sterilize the solution, then aseptically add it to 500 ml of autoclaved Campylobacter Blood-Free Selective Agar Base cooled to 50°C. Ensure thorough mixing and pour the mixture into sterile Petri dishes.

Storage

Store in a light-protected environment at -20°C.