

Iron II Sulfate Supplement (iS47081)

Iron II Sulfate supplement recommended for detection of thermophilic anaerobic organisms causing sulphide spoilage in food.

Industry: Food

Description

The supplement is recommended for preparing Iron Sulfite Agar, utilized in the detection and enumeration of *Clostridia* species. In the culture medium, H₂S-positive bacteria reduce sulfite to sulfide, forming black centers in colonies. H₂S-weakly-positive colonies appear brown, while, in anaerobic conditions, *clostridia* develop into black colonies.

Content per Vial

1 Vial for 500 ml of culture medium.

Iron II Sulfate	0.7 g
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Directions

Warm the supplement to room temperature. Rehydrate the contents of one vial with 5 ml of distilled water. Thoroughly mix, filter sterilize, and then aseptically introduce it to 495 ml of sterile, molten, and cooled Sulfite Iron Agar (45-50°C). Ensure a thorough mix before dispensing into sterile tubes or Petri dishes.

Storage

Store in a light-protected environment at 2-8°C.