

Iron Sulphite Agar

Use and description:

A medium for the detection of thermophilic anaerobic organisms causing sulphide spoilage in food products.

Composition per liter:

Tryptone.....10.0 g
 Ferric (III) citrate.....0.5 g
 Sodium Sulphite.....0.5 g
 Agar.....13.0 g

Final pH of the ready to use medium: 7.1 ± 0.2

Medium preparation:

Add 24.0 grams of dehydrated culture medium to 1 liter of distilled water. Mix thoroughly and heat with frequent agitation until boiling. Autoclave for 15 minutes at 121 °C. Cool down to 50°C and dispense in 10ml tubes, and inoculated whilst fluid. Incubate at 55°C for thermophilic species.

Quality specifications:

Dehydrated medium: homogeneous, straw coloured, fine powder.

Ready to use medium: straw –grey agar.

Microbiological response:

Organism	Result
<i>Clostridium sporogenes</i> ATCC® 19404*	blackening, good growth
<i>Desulfotomaculum nigrificans</i> ATCC® 19858	blackening good growth
<i>Escherichia coli</i> ATCC® 25922	Good growth; no blackening

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.