



Product Data Sheet

BILE SALT AGAR (IS: 5887 (Part V) 1976, reaffirmed 2005)

Product No. GB-DCM-00090-1A

INTENDED USE

For isolation and enumeration of bile tolerant enteric bacilli.

PRODUCT SUMMARY

Bile Salt agar is used for the isolation and enumeration of enteric bacilli. Enteric bacilli are gram negative nonsporing facultative anaerobes which are found mostly in the vertebrate intestine as normal flora or pathogen. These organisms can cause either intestinal or extra-intestinal infections. The medium composition is in accordance to the specifications detailed in the recommendations of BIS.

Product Specifications

Ingredients	Gms / Ltr
Agar	15.000
Peptone	10.00
Sodium chloride	5.000
Sodium taurocholate	5.000
Meat extract	5.000

PRINCIPLE

The medium contains the Peptone and Meat extract which provide carbon, nitrogenous compounds and other essential nutrients for the growth of enteric bacilli. Sodium taurocholate inhibits Gram-positive organisms. Sodium chloride maintains the osmotic balance of the medium. Agar is used as a solidifying agent.

INSTRUCTION FOR USE

1. Dissolve 40 grams in 1000 ml distilled water.
2. Gently heat to boiling with swirling to dissolve the medium completely.
3. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
4. Cool to 45-50°C and dispense as desired.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Klebsiella aerogenes	13048	50-100	Luxuriant	>=50%	35-37°C	18-24 Hours
Escherichia coli	25922	50-100	Luxuriant	>=50%	35-37°C	18-24 Hours
Salmonella Typhi	6539	50-100	Luxuriant	>=50%	35-37°C	18-24 Hours
Staphylococcus aureus	25923	≥1000	Inhibited	0%	35-37°C	18-24 Hours
Vibrio cholerae	25933	50-100	Luxuriant	>=50%	35-37°C	18-24 Hours

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Light yellow homogeneous free flowing powder.

Appearance of prepared medium: Light yellow coloured, clear to slightly opalescent gel with a bluish tinge forms in Petri plates.

pH (at 25°C) : 8.5±0.2

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.