

TM 1506 - SOYA CASEIN DIGEST AGAR WITH INHIBITOR

INTENDED USE

A general purpose medium with inhibitor that inhibit the growth of Staphylococci.

PRODUCT SUMMARY AND EXPLANATION

Soyabean Casein Digest Agar is recommended by various pharmacopoeias as sterility testing medium. It is also used for the sensitivity testing by the tube dilution method for antimicrobial agents. Gunn et al used this medium for the growth of fastidious organisms and to study haemolytic reaction after addition of 5% v/v blood.

COMPOSITION

Ingredients	Gms / Ltr		
Casein enzymic hydrolysate	15.000		
Papaic digest of soyabean meal	5.000		
Sodium chloride	5.000		
Sodium deoxycholate	0.500		
Agar	15.000		

PRINCIPLE

The combination of casein enzymic hydrolysate and papaic digest of soyabean meal makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance. Sodium deoxycholate inhibits the growth of Staphylococci.

INSTRUCTION FOR USE

- Dissolve 40.5 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Light yellow to medium amber coloured clear to slightly opalescent gel forms in

Petri plates.

pH (at 25°C) : 7.2±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism ATCC Inoculum (CFU/ml) Growth Recovery Temperature Perio
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Bacteroides vulgatus	8482	50-100	Luxuriant	>=70%	35-37°C	18-24 Hours
Candida albicans	10231	10-100	Good- luxuriant	>=50%	35-37°C	18-24 Hours
Neisseria meningitidis	13090	50-100	Luxuriant	>=70%	35-37°C	18-24 Hours
Staphylococcus aureus	25923	>=10 ³	Inhibited	0%	35-37°C	18-24 Hours
Staphylococcus aureus	25923	>=10 ³	Inhibited	0%	35-37°C	18-24 Hours
Streptococcus pyogenes	19615	50-100	Good- luxuriant	>=50%	35-37°C	18-24 Hours

PACKAGING:

In pack size of 500 gm bottles.

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.

REFERENCES

- 1. The United States Pharmacopoeia / National Formulary, 2008, USP31, The United States Pharmacopeial Convention Inc., Rockville, MD.
- 2. Indian Pharmacopeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
- 3. Wright and Welch, 1959-60, Antibiotics Ann., 61.
- 4. Gunn B. A. et al, 1977, J. Clin. Microbiol., 5(6): 650.



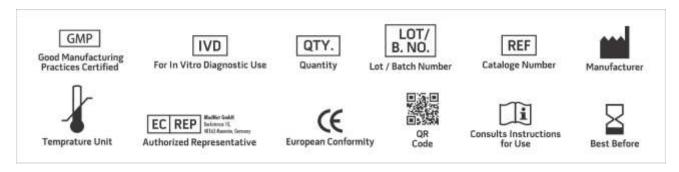












NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. *For Lab Use Only Revision: 08 Nov., 2019





