



Product Data Sheet

SOYA CASEIN DIGEST MEDIUM (ANTIBIOTIC ASSAY MEDIUM NO.37) (TRYPTONE SOYA BROTH) CASO BROTH

Product No. GB-DCM-00035-1A

INTENDED USE

For sterility testing and cultivation of fastidious and non-fastidious microorganisms.

Product Description

Grove and Randall have elucidated the antibiotic assays and medias in their comprehensive treatise on antibiotic assays. Antibiotic Assay Medium No. 37 can be used as a general medium for sterility checking of pharmaceutical products and cultivation of fastidious and non-fastidious organisms and is formulated as per CFR and USP. It is also used for the sensitivity testing by the tube dilution method for antimicrobial agents. Turbidimetric antibiotic assay is based on the change or inhibition of growth of a test microorganisms in a liquid medium containing a uniform concentration of an antibiotic. After incubation of the test organism in the working dilutions of the antibiotics, the amount of growth is determined by measuring the light transmittance using spectrophotometer. The concentration of antibiotic is determined by comparing amounts of growth obtained with that given by the reference standard solutions. Use of this method is appropriate only when test samples are clear.

Product Specifications

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Dextrose	2.500
Sodium chloride	5.000
Dipotassium phosphate	2.500

PRINCIPLE

The combination of Tryptone and soya peptone makes this medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance of the medium.

Microorganism	ATCC	Inoculum (CFU)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Luxuriant	30-35°C	<= 3 days
Escherichia coli	8739	50-100	Luxuriant	30-35°C	<= 3 days
Salmonella Ebony	6017	50-100	Luxuriant	30-35°C	<= 3 days
Salmonella Typhimurium	14028	50-100	Luxuriant	30-35°C	<= 3 days
Bacillus subtilis	6633	50-100	Luxuriant	30-35°C	<= 3 days
Staphylococcus aureus	25923	50-100	Luxuriant	30-35°C	<= 3 days
Micrococcus luteus	9341	50-100	Luxuriant	30-35°C	<= 3 days
Streptococcus pneumoniae	6305	50-100	Luxuriant	30-35°C	<= 3 days
Pseudomonas aeruginosa	27853	50-100	Luxuriant	30-35°C	<= 3 days
Candida albicans	10231	50-100	Luxuriant	30-35°C	<= 3 days
Aspergillus brasiliensis	16404	10-100	Luxuriant	20-25°C	<= 5 days



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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.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder:	Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium:	Light yellow coloured clear solution without any precipitate.
PH (at 25°C):	7.3±0.2

INSTRUCTION FOR USE

- Dissolve 40.0 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 25°C and store in a cool dark place preferably below 25°C.

This product is for research use only.