



Product Data Sheet

ANTIBIOTIC ASSAY MEDIUM J (as per IP)

Product No. GB-DCM-00034-1A

INTENDED USE

For enrichment and isolation of fastidious microorganisms with or without blood.

Product Description

Grove and Randall have elucidated the antibiotic assays and medias in their comprehensive treatise on antibiotic assays. Antibiotic assay Medium No. 36 is recommended for preparation of inoculum of *Mycobacterium smegmatis* for the assay of Bleomycin. This medium is also used for the cultivation of a wide variety of microorganisms and sterility testing of pharmaceutical preparations. This medium is formulated in accordance with Indian Pharmacopoeia.

Product Specifications

Ingredients	Gms / Ltr
Tryptone	15.000
Soya peptone	5.000
Sodium chloride	5.000
Agar	15.000

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.

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 45-50°C. Mix well and pour into sterile Petriplates.

Microorganism	ATCC	Inoculum (CFU)	Growth	Recovery	Incubation Temperature	Incubation Period
Mycobacterium smegmatis	607	50-100	Luxuriant	>=70 %	36-37°C	18-48 Hours

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: Light yellow coloured may have slightly greenish tinge, homogeneous, free flowing powder.

Appearance of prepared medium: Basal Medium: Light yellow coloured clear to slightly opalescent gel. After addition of 5-7%w/v sterile defibrinated blood: Cherry red coloured opaque gel form in Petri plates.

PH (at 25°C): 7.3±0.2

This product is for research use only.