

A1716 Antibiotic Assay Medium No. 10

Antibiotic Assay Medium No. 10 is used in the performance of antibiotic assays.

Composition:

Ingredients	Grams/Litre
Casein Enzymic Hydrolysate	17.0
Papaic Digest of Soyabean Meal	3.0
Dextrose	2.5
Sodium Chloride	5.0
Dipotassium Phosphate	2.5
Polysorbate 80	10.0
Agar	12.0
Final pH 7.2 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Light yellow colored, homogeneous, free flowing powder.

Gelling: Firm.

Color and Clarity: Medium amber colored, clear to very slightly opalescent gel forms in petri plates.

Directions:

Suspend 52 g in 1000 ml distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Principle and Interpretation:

This medium is prepared according to the specifications detailed in the USP and by the FDA. The use of this medium assures well defined inhibition zones of the test organisms. Nutrients and growth factors are supplied by casein enzymic hydrolysate and papaic digest of soyabean meal. Dextrose is a carbon source. Dipotassium phosphate provides good buffering action. Sodium chloride maintains the osmotic equilibrium.

Cultural characteristics after 18-24 hours at 35°C.

Organisms (ATCC)	Growth
<i>Pseudomonas aeruginosa</i> (25619)	+++
<i>Bordetella bronchiseptica</i> (4617)	+++

References:

1. United States Pharmacopeia/National Formulary (USP 22/NF 17), (1990). U.S. Pharmacopeial Convention, Inc., Rockville, Maryland.
2. United States Pharmacopeia/National Formulary (USP 23/NF18), (1995). US Pharmacopeial Convention, Inc., Rockville, Maryland.
3. Tests and Methods of Assay of Antibiotics and Antibiotic Containing Drugs, FDA, CFR, (1983). Title 21. Part 436. Subpart D. Washington, D.C.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

