

A2715 Antibiotic Assay Medium No. 19

Antibiotic Assay Medium No.19 is used in the performance of antibiotic assays.

Composition:

Ingredients	Grams/Litre
Peptic Digest of Animal Tissue	9.4
Yeast Extract	4.7
Beef Extract	2.4
Dextrose	10.0
Sodium Chloride	10.0
Agar	23.5
Final pH 6.1 +/- 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, homogenous, free flowing powder.

Gelling: Firm.

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

Directions:

Suspend 60.0 g of Antibiotic Assay Medium No. 19 in 1000 ml of 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 the peptic digest of animal tissue, yeast extract and beef extract. Dextrose is a carbon source. Sodium chloride maintains the osmotic equilibrium.

Cultural characteristics after 18-24 hours at 25-30°C.

Organisms (ATCC)	Growth	Inhibition zones with
<i>Saccharomyces cerevisiae</i> (9763)	+++	Amphotericin B, Netamycin
<i>Saccharomyces cerevisiae</i> (2601)	+++	Nystatin

References:

1. United States Pharmacopeia/National Formulary (USP22/NF 17), (1990). U.S. Pharmacopeial Convention, Inc., Rockville, Maryland.
2. United States Pharmacopeia/National Formulary (USP 23/NF18), (1995). U.S. 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.

