Also known as
Seed Agar; Medium A; Penassay Seed Agar; Penicillin Assay Speed Agar; Medium 1; AM1 ; Antibiotic Medium 1.

Specification
Antibiotic Medium A at pH 6,6 is used in microbiological antibiotic assays using agar diffusion technique.

Formula * in g/L
Peptone..... 6.00
Casein peptone..... 4.00
Yeast extract..... 3.00
Meat extract..... 1.50
Dextrose..... 1.00
Agar..... 15.00

Final pH 6,6 ±0,1 at 25 ºC
* Adjusted and /or supplemented as required to meet performance criteria

Directions
Suspend 30.5 g of powder in 1 L of distilled water and bring to the boil stirring constantly. Distribute in suitable containers and sterilize in the autoclave at 121ºC for 15 minutes.

Description
Antibiotic Medium A at pH 6,6 is used as a maintenance culture media for the bacterial strains used in antibiotic assay. It is also used as a seed layer in the assay of bacitracin, framycetin, josamycin and rifampicin among others.

Technique
The agar diffusion technique for antibiotic assays is performed according to the methodology recommended in the pharmacopoeia used in each country. Antibiotic Medium A at pH 6,6 is suitable for use with paper discs, punched-holes or cylinder methodology because its gel strength is specially adjusted for all the techniques.

Quality control
Incubation temperature: 35-37°C **Incubation time:** 24 ± 3h
Inoculum: Practical range 50-100 CFU (Productivity). Spiral Plate Method.

Microorganism	Growth	Remarks
Bacillus subtilis ATCC® 6633	Productivity > 0.70	-
Micrococcus luteus ATCC® 9341	Productivity > 0.70	-

References
· ARRET, B.D., P. JOHNSON & A. KIRSCHBAUM (1971) Outline details for Microbiological Assays of Antibiotics: Second revision. J. Pharm. Sci. 60(11):1689-1694.
· EUROPEAN PHARMACOPOEIA 8.0 (2016) §. 2.7.2 Microbiological Assay of Antibiotics. EDMH. Council of Europe. Strasbourg.
· SANCHO, J:, J.GUINEA & R. PARÉS (1980) Microbiología Analítica Básica. Ed. JIMS. Barcelona.
· USP 33 - NF 28 (2011) <81> Antibiotics - Microbial Assays. USP Corp. Inc. Rockville. MD. USA.

Storage
For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 ºC to 30 ºC).