

CM 20131 – ANTIBIOTIC ASSAY MEDIUM NO. 38 (VEG.)

INTENDED USE

For microbiological assay of Ticarcillin using *Pseudomonas aeruginosa*.

PRODUCT SUMMARY AND EXPLANATION

Antibiotic Veg Assay Medium No. 38 is prepared by incorporating vegetable peptones in place of animal peptones, making the medium, BSE-TSE risks free. This medium can be used for the same purpose of Antibiotic Medium No. 38 which follows the specification of CFR and is routinely employed for agar diffusion assay of Ticarcillin using Gram negative test organisms especially *Pseudomonas aeruginosa*. This medium is used as both base agar and seed agar for assay of Ticarcillin.

Freshly prepared plates should be used for antibiotic assays. Test organisms are inoculated in sterile seed agar pre-cooled to 40-45°C and spread evenly over the surface of solidified base agar.

COMPOSITION

| Ingredients | Gms / Ltr |
|--------------------------------|-----------|
| Veg Peptone | 15.000 |
| Papaic digest of soyabean meal | 5.000 |
| Sodium chloride | 4.000 |
| Sodium sulphite | 0.200 |
| L-Cystine | 0.700 |
| Dextrose | 5.500 |
| Agar | 15.000 |

PRINCIPLE

Vegpeptone and papaic digest of soyabean meal provides essential nutrients and growth factors for the growth of test organism. Dextrose serves as carbon source. Sodium chloride maintains the osmotic equilibrium. L-cystine and sodium sulphite are sulphur providers that aids assimilation of sulphur during microbial growth. L-cystine also acts as growth stimulator and enrich the medium with amino acid source for promoting the growth. The high nutritional content along with high sulfur (cystine and sodium sulphite) content improves growth with chromogenicity of test organism *Pseudomonas*.

INSTRUCTION FOR USE

Dissolve 45.40 grams in 1000 ml purified/ distilled water.

Heat to boiling 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 Petri plates.

QUALITY CONTROL SPECIFICATIONS

| | |
|-------------------------------|---|
| Appearance of Powder | : Cream to yellow homogeneous free flowing powder. |
| Appearance of prepared medium | : Light yellow coloured clear to slightly opalescent gel forms in Petri plates. |
| pH (at 25°C) | : 7.3±0.1 |

INTERPRETATION

Cultural characteristics observed after incubation.



| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | Recovery | Antibiotics assayed | Incubation Temperature | Incubation Period |
|------------------------|-------|-------------------|-----------|----------|---------------------|------------------------|-------------------|
| Pseudomonas aeruginosa | 29336 | 50-100 | Luxuriant | >=70% | Ticarcillin | 35 -37°C | 18-24 Hours |

PACKAGING:

Inpacksizeof500 gm bottles.

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

Afteruse,prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Tests and Methods of Assay of Antibiotics and Antibiotic containing Drugs, FDA, CFR, 1983 Title 21, Part 436, Subpart D, Washington, D.C.: U.S. Government Printing Office, paragraphs 436, 100-436, 106, p. 242-259, (April)

| | | | | | |
|--|---|--|---|--|---|
|  GMP Good Manufacturing Practices Certified |  IVD For In Vitro Diagnostic Use |  QTY. Quantity |  LOT/ B. NO. Lot / Batch Number |  REF Catalogue Number |  Manufacturer |
|  Temperature Unit |  EC REP Authorized Representative <small>MedNet GmbH Bockstrasse 10 48143 Muenster, Germany</small> |  European Conformity |  QR Code |  Consults Instructions for Use |  Best Before |

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only

