

## CM 21136 - MAINTENANCE MEDIUM FOR B.SUBTILIS ATCC 6633

### INTENDED USE

For maintenance of Bacillus subtilis ATCC 6633 as the test organism for assay of antibiotics.

### PRODUCT SUMMARY AND EXPLANATION

Maintenance Medium is used for the maintenance of Bacillus subtilis ATCC 6633 used as test organisms for microbiological assay of antibiotics.

### COMPOSITION

| Ingredients                    | Gms / Ltr |
|--------------------------------|-----------|
| Peptic digest of animal tissue | 6.000     |
| Casein enzymic hydrolysate     | 4.000     |
| Yeast extract                  | 3.000     |
| Beef extract                   | 1.500     |
| Dextrose                       | 1.000     |
| Agar                           | 15.000    |

### PRINCIPLE

Maintenance Medium contains peptic digest of animal tissue, casein enzyme hydrolysate and beef extract to provide carbon and nitrogen for general requirements. Yeast extract supplies B-complex vitamins which stimulate bacterial growth. Dextrose is the carbohydrate source. Agar is the solidifying agent.

### INSTRUCTION FOR USE

Dissolve 30.5 grams in 1000 ml distilled water.

Heat to boiling to dissolve the medium completely.

Dispense as desired and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### 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) : 6.6±0.2

### INTERPRETATION

Cultural characteristics observed after an incubation.

| Microorganism     | ATCC | Inoculum (CFU/ml) | Growth    | Recovery | Incubation Temperature | Incubation Period |
|-------------------|------|-------------------|-----------|----------|------------------------|-------------------|
| Bacillus subtilis | 6633 | 50-100            | Luxuriant | ≥70 %    | 35-37°C                | 18-48 Hours       |



**PACKAGING:**

In pack size of 100 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.

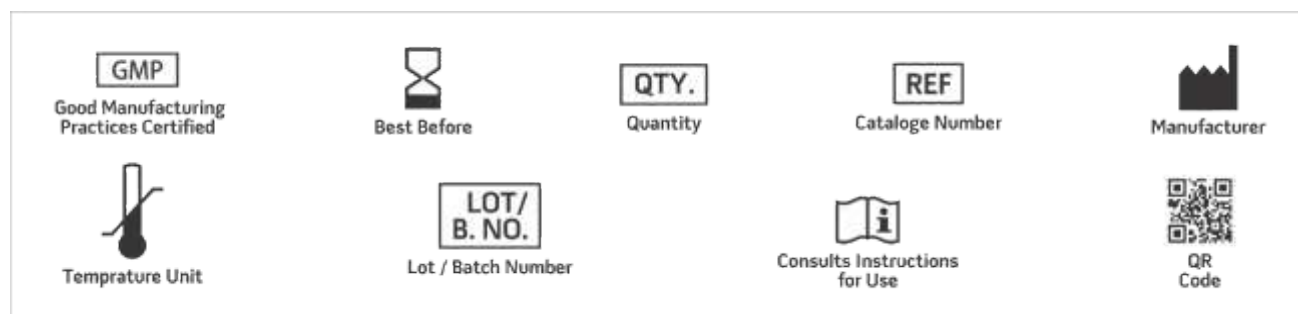
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

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

**REFERENCES**

1. Green and Gray, 1950, Wallerstein Lab. Commun., 13:357.



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

\*For Lab Use Only