

## Technical Information

### Maintenance Medium for *B. subtilis* ATCC 6633

#### Product Code: DM 1418

**Application:** - Maintenance Medium is used for maintenance of *Bacillus subtilis* ATCC 6633 used as test organism for microbiological assay of antibiotics.

#### Composition\*\*

Ingredients	Gms / Litre
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
Final pH (25°C)	6.6±0.2

\*\*Formula adjusted, standardized to suit performance parameters

#### Principle & Interpretation

Maintenance Medium is used for the maintaining *Bacillus subtilis* ATCC 6633 used as test organisms for microbiological assay of antibiotics <sup>(1)</sup>.

Maintenance Medium contains peptic digest of animal tissue, casein enzymic 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.

#### Methodology

Suspend 30.5 grams of powder media in 1000 ml distilled water. Shake well & heat to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Quality Control

##### Physical Appearance

Cream to greenish yellow homogeneous free flowing powder

##### Gelling

Firm, comparable with 1.5% Agar gel

##### Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates.

##### Reaction

Reaction of 3.05% w/v aqueous solution at 25°C. pH:-6.6±0.2

**pH range** 6.40-6.80

##### Cultural Response/ characteristics

DM 1418: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

##### Organism

*Bacillus subtilis* ATCC 6633

##### Growth

luxuriant



Dehydrated Culture Media  
Bases / Media Supplements

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

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

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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