



Technical Data

Soyabean Casein Digest Medium with 0.1% Agar (Tryptone Soya Broth w/ 0.1% Agar)

M323

Soyabean Casein Digest medium with 0.1% Agar is recommended for cultivation of anaerobes from root canals, blood and other specimens.

Composition**

| Ingredients | Gms / Litre |
|--------------------------------|-------------|
| Casein enzymic hydrolysate | 17.000 |
| Papaic digest of soyabean meal | 3.000 |
| Sodium chloride | 5.000 |
| Dibasic potassium phosphate | 2.500 |
| Dextrose | 2.500 |
| Agar | 1.000 |
| Final pH (at 25°C) | 7.3±0.2 |

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 31 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Soyabean Casein Digest Medium with 0.1% Agar is used for culturing organisms especially anaerobes from root canals, blood and other clinical samples. Inclusion of agar to this medium is useful for isolating anaerobic oral *Vibrio's* (1) and also anaerobic organisms causing nasal sinusitis (2).

Casein enzymic hydrolysate and papaic digest of soyabean meal supplies nitrogenous and carbonaceous compounds, trace minerals etc. Dextrose serves as a source of fermentable carbohydrate for the energy production. Sodium chloride maintains osmotic balance while Dipotassium phosphate provides buffering capacity. Small percentage of agar helps in creating moderately anaerobic condition in the depth of the medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate

Reaction

Reaction of 3.1% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

M323: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours

| Organism | Inoculum (CFU) | Growth |
|---|----------------|----------------|
| <i>Bacteroides fragilis</i> ATCC 25285 | 50-100 | good-luxuriant |
| <i>Clostridium perfringens</i> ATCC 12924 | 50-100 | good-luxuriant |

| | |
|--|----------------|
| <i>Neisseria meningitidis</i> ATCC 50-100 13090 | good |
| <i>Staphylococcus epidermidis</i> 50-100 ATCC 12228 | good-luxuriant |
| <i>Streptococcus pneumoniae</i> 50-100 ATCC 6303 | good-luxuriant |
| <i>Streptococcus pyogenes</i> 50-100 ATCC 19615 | good-luxuriant |

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

1. Mashimo and Ellison, 1959, J. Bact., 78:636.
2. Fredette, Anger and Forget, 1961, Can. Med. Assoc. J., 84:164.

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