

## Technical Information

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

#### Product Code: DM 1323

**Application:** 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

#### Principle & Interpretation

Soyabean Casein Digest Medium with 0.1% Agar is used for isolating organisms especially anaerobes from root canals, blood nasal sinusitis including anaerobic oral *Vibrio's* <sup>(1, 2)</sup>.

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.

#### Methodology

Suspend 31 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 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 range** 7.10-7.50

##### Cultural Response

DM 1323: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours.

##### Organism

*Bacteroides fragilis* ATCC 25285

*Clostridium perfringens* ATCC 12924

##### Inoculum (CFU)

Good-luxuriant

Good-luxuriant

##### Growth

Good-Luxuriant

Good-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<sup>0</sup> in sealable plastic bags for 2-5 days.

## Further Reading

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

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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