**Tryptose Sulfite Cycloserine Agar Base**

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| **Product No.** | **Product Category** | **Specification** |
| HCM025 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the isolation and enumeration of the vegetative and spore forms of Clostridium perfringens in foodstuffs and other materials.

**Principle and Interpretation**

Tryptose, soy peptone and yeast extract powder provide carbon and nitrogen sources, vitamins and growth factors; glucose and lactose provide carbon sources for fermentable sugars; sodium metabisulfite and ammonium ferric citrate are used to detect the production of hydrogen sulfide, making the center of the colony black; egg yolk contains lecithin, which can detect certain clostridia containing lecithinase; agar is a coagulant for the culture medium; D-cycloserine inhibits non-clostridia bacteria.

**Formulation**

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| **Ingredients** | **/liter** |
| Tryptose | 15.0g |
| Yeast extract | 5.0g |
| Soya peptone (Soytone) | 5.0g |
| Ferric ammonium citrate | 1.0g |
| Sodium metabisulfite | 1.0g |
| Agar | 15.0g |
| pH7.4±0.2 at 25°C | |

**Preparation**

Suspend 42g of dry powder of this product, add 1L of distilled water or deionized water, stir, heat and boil until completely dissolved, divide into Erlenmeyer bottles. Sterilize by autoclaving at 121℃ for 15min, cool to about 50℃, add 1 bottle of matching reagent (SR0290) for every 100mL culture medium, mix well, and pour into sterile culture dishes for later use.

**Quality Control**

Cultural characteristics observed after an incubation at 35-37°C for 24 hours

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| **Quality control strains** | **Growth** | **Characteristics** |
| *Clostridium perfringens* ATCC13124 | good | Black colonies |
| *Escherichia coli* ATCC25922 | none | / |

**Storage and Shelf Life**

2-30℃，Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

**Precautions**

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort

2. Keep container tightly closed after using to prevent clumping.

**Waste Disposal**

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

**Revision**

On June 14, 2024

**References**

BAM Media M169

ISO 7937

ISO 14189