**Slanetz and Bartley Agar**

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| **Product No.** | **Product Category** | **Specification** |
| HCM116 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the enumeration of enterococci in water and other liquids by the membrane filtration technique.

**Principle and Interpretation**

The growth of the entire accompanying Gram-negative microbial flora is inhibited by sodium azide. *Enterococci* reduce 2,3,5-Triphenyl tetrazolium chloride (TTC) to give a red formazan inside the bacterial cell, their colonies are thus red. Nitrogen, minerals, and amino acids are provided by the tryptose whilst yeast extract supplies vitamins. Glucose acts as the carbon source, dipotassium phosphate buffers the medium, and agar-agar is the solidifying agent.

**Formulation**

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| **Ingredients** | **/liter** |
| Tryptose  | 20.0g |
| Yeast extract | 5.0g |
| Glucose | 2.0g |
| Disodium hydrogen phosphate | 4.0g |
| Sodium azide | 0.4g |
| 2,3,5-Triphenyl Tetrazolium chloride | 0.1g |
| Agar  | 10.0g |
| pH 7.2±0.1 at 25°C |

**Preparation**

Dissolve 41.5 g in 1 L of purified water. Heat in boiling water and agitate frequently until completely dissolved. Sterilize by further heat for 20 minutes in the boiling water bath.

**Quality Control**

Cultural characteristics observed after incubation at 34-38°C for 40-48hours

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| **Quality control strains** | **Growth** | **Colony color** |
| Enterococcus faecalis ATCC29212 | Good growth,PR≥0.5 | deep red coloured colonies |
| Escherichia coli ATCC25922 | Total inhibition  | - |

**Sorage and Shelf Life**

Keep container tightly closed, store in a cool, dry place, away from bright light. Storage period of 3 years.

**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**

ISO 7899-2:2000 Water quality -- Detection and enumeration of intestinal enterococci -- Part 2:Membrane filtration method