**Tryptone Soya Yeast Extract Agar (TSYEA)**

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| **Product No.** | **Product Category** | **Specification** |
| HCM124 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For cultivation of *Listeria* spp.

**Principle and Interpretation**

Enzymatic digest of casein and papaic digest of soyabean meal provide essential growth nutrients, like amino acids and other nitrogenous substances. Yeast extract is the source of the vitamin B complex and other nutritive compounds like e.g. amino acids. Glucoseis the fermentable sugar and seves as the energy source. Sodium chloride is for the osmotic balance, while dipotassium hydrogen phosphate acts as the buffering agent.

**Formulation**

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| **Ingredients** | **/liter** |
| Enzymatic digest of casein | 17.0 g |
| Papaic digest of soyabean meal | 3.0 g |
| Sodium chloride | 5.0 g |
| Dipotassium hydrogen phosphate | 2.5 g |
| Glucose | 2.5 g |
| Yeast extract | 6.0g |
| Agar | 15.0g |
| pH7.3±0.2 at 25°C |

**Preparation**

Suspend 51.0 g in 1 L of distilled or deionized water. Heat with frequent agitation and boil to completely dissolve the powder. Distribute into tubes or flasks. Autoclave at 121℃ for 15 minutes.

**Quality Control**

Cultural characteristics observed after incubation at 20-25°C for 24-48h.

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| **Quality control strains** | **Growth** |
| *Listeria monocytogenes* ATCC19115 | Good  |

**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**

ISO 11290-2:2017