**Man Rogosa Sharpe Medium (MRS Medium)**

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| **Product No.** | **Product Category** | **Specification** |
| HCM028 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the enrichment, cultivation and isolation of all species of Lactobacillus from all types of material.

**Principle and Interpretation**

Peptone, beef extract powder, yeast extract powder to provide a nitrogen source, vitamins, growth factors; ammonium citrate, magnesium sulfate, manganese sulfate, Tween-80 and sodium acetate to provide the training of various lactic acid bacteria growth factor, agar as medium coagulant.

**Formulation**

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| **Ingredients** | **/liter** |
| Peptone | 10.0g |
| Beef extract | 5.0g |
| Yeast extract | 4.0g |
| Glucose | 20.0g |
| Tween -80 | 1.0mL |
| Dipotassium hydrogen phosphate | 2.0g |
| Sodium acetate | 5.0g |
| Ammonium citrate | 2.0g |
| Magnesium sulfate | 0.2g |
| Manganese sulfate | 0.05g |
| Agar | 15.0g |
| pH6.2±0.2 at 25°C |

**Preparation**

Suspend 64.3g in 1 L of distilled or deionized water ,heated to boiling stirring until completely dissolved, dispensing into flask, autoclave at 121 ℃ for 15min.

**Quality Control**

Cultural characteristics observed after an incubation at 35-37°C for 46~50h

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| **Quality control strains** | **Growth** |
| *Lactobacillus delbrueckii subsp. Bulgaricus* CICC6032 | PR≥0.7， cream colonies |
| *Streptococcus thermophilus*  IFFI6038 |
| *Bifidobacterium infantis* CICC6069（ Anaerobic culture） |

**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