**Modified Phosphate Buffer**

**（Peptone Sorbitol Bile Broth）**

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| **Product No.** | **Product Category** | **Specification** |
| HCM144 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the selective enrichment of *Yersinia enterocolitica.*

**Principle and Interpretation**

Peptone (enzymatic of digest of casein) and sorbitol provides carbon and nitrogen sources, disodium hydrogen phosphate and sodium dihydrogen phosphate are buffers, bile salts inhibit Gram-positive bacteria, and sodium chloride provides the osmotic pressure required by cells.

**Formulation**

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| **Ingredients** | **/liter** |
| Peptone (enzymatic of digest of casein) | 5.0g |
| Sorbitol | 10.0g |
| NaCl | 5.0g |
| Na2HPO4 | 8.23 g |
| NaH2PO4 · H2O | 1.2 g |
| Bile salts No. 3 | 1.5 g |
| pH7.6±0.2 at 25°C | |

**Preparation**

Suspend 30.93 g in 1 litre distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes..

**Quality Control**

Cultural characteristics observed after incubation at 26±1℃ for 48hhours

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| **Quality control strains** | **Inoculum CFU** | **Expected Result** |
| *Yersinia enterocolitica* CMCC(B)52204 | 10-100 | good growth |
| *Enterococcus faecalis* ATCC29212 | ≥ 100 | no growth |

**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**

FDA BAM Media M120

ISO 10273：2017