**Buffered Sodium Chloride Peptone Solution PH7.0**

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| **Product No.** | **Product Category** | **Specification** |
| HCM091 | Dehydrated Culture Medium | 500g/bottle |
| 022116 | Dehydrated Culture Medium | 250g/bottle |

**Intended Use**

For the dissolving, suspending and diluting of test samples from pharmaceutical and other material and of test strains.

**Principle and Interpretation**

The low peptone provide the nitrogen source, vitamins, amino acids, and carbon to maintain organisms viability, but does not allow significant growth of more fastidious microorganisms; sodium chloride to maintain osmotic balance; potassium dihydrogen phosphate and disodium hydrogen phosphate as a buffer.

**Formulation**

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| **Ingredients** | **/liter** |
| Peptone (meat or casein) | 1.0 g |
| Potassium dihydrogen phosphate | 3.6 g |
| Disodium hydrogen phosphate dihydrate | 7.2 g |
| Sodium chloride | 4.3 g |
| pH 7.0±0.2 at 25°C | |

**Preparation**

Suspend 16.1 g in 1 litre of purified water, stir, heat and boil until completely dissolved, divide into Erlenmeyer bottles, sterilize by autoclaving at 121°C for 15 minutes.

**Quality Control**

The following quality control strains were inoculated and cultured at 35-37℃ for 24h. The results are as follows:

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| **Quality control strains** | **Incubation** | **Reference medium** | **Method of control** | **Expected results** |
| *Escherichia coli* ATCC8739 | 45 min at  20-25℃  (room temp.) | Tryptic Soy Agar (TSA) | Quantitative | ± 50 % colonies |
| *Staphylococcus aureus* ATCC6538 |

**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**

USP /EP Microbiological examination of nonsterile pruducts