# TECHNICAL SHEET

| BH955 | BUFFERED SODIUM CHLORIDE PEPTONE SOLUTION PH 7.0 |
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| **Formula** | |
| **Ingredients:** | **Gms /lit.** |
| Peptone (meat or casein) | 1.00 |
| Sodium chloride | 4.30 |
| Disodium hydrogen phosphate dihydrate | 7.23 |
| Potassium dihydrogen phosphate | 3.60 |

Final pH (at 25°C) : 7.0

**Directions :**

Suspend 14.64 grams (the equivalent weight of dehydrated medium per Litre) in 1000 ml purified /distilled water. Heat if necessary, to dissolve the medium completely. For preparation of nonfatty products insoluble in water, add 0.1 % w/v Polysorbate 80 to assist the suspension of poorly wettable substances. Dispense in tubes or flasks or as desired and sterilize by autoclaving at 15 lbs pressure 121°C for 15 minutes or as per validated cycle.

**Principle :**

Peptone (meat or casein) serves as nutrient source and maintains the cell viability. Phosphates in the medium act as good buffering agents. Sodium chloride maintains the osmotic balance and cell integrity. Polysorbates reduce surface tension and also inactivate phenolic compound, if present in the test sample. Preparation of test strain is recommended in Buffered Sodium chloride-Peptone solution pH 7.0 at 30-35°C where in there is no multiplication of organisms or there is no decrease in count for upto 4 hours.

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|---|---|---|
| **QC Tests – (I)Dehydrated Medium** | | |
| | Colour : | White to Cream |
| | Appearance : | Homogeneous Free Flowing powder |
| **(II)Rehydrated medium** | | |
| | pH (post autoclaving/heating) : | 7.0 |
| | Colour (post autoclaving/heating) : | Colorless to pale yellow |
| | Clarity (post autoclaving/heating) : | Clear |
| **(III)Q.C. Test Microbiological** | | |

Cultural characteristics observed after 18 –24 hrs at 35-37°C.

| MICROORGANISM (ATCC ) | Recovery within 2 hours of incubation | Recovery within 4 hours of incubation | Recovery within 24 hours of incubation |
|---|---|---|---|
| Escherichia coli ATCC 8739 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Escherichia coli ATCC 25922 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Staphylococcus aureus ATCC 6538 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Staphylococcus aureus ATCC 25923 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Pseudomonas aeruginosa ATCC 27853 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Pseudomonas aeruginosa ATCC 9027 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Salmonella Typhimurium ATCC 14028 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Salmonella Abony NCTC 6017 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| Candida albicans ATCC 10231 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |

Refer disclaimer overleaf



REV: JANUARY 2025

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|---|---|---|---|---|
| | Candida albicans ATCC 2091 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |
| | Micrococcus luteus ATCC 9341 | no decrease in colony count | no decrease in colony count | no decrease in colony count (stored at 2-8°C) |

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| **Precautions :** | 1. For Laboratory Use. | | | | |
| | 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. | | | | |
| | 3. May be Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. | | | | |
| **Limitations :** | 1. This medium contains fewer nutrients and is not recommended for the growths of microorganisms. | | | | |
| | 2. Further biochemical and serological testing is required for complete identification. | | | | |
| **Use :** | Recommended as a diluent for carrying out microbial limit testing by harmonized methodology of pharmaceutical products in accordance with USP/EP/BP/JP/IP | | | | |
| **Storage :** | Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C. | | | | |
| **Packing :** | 500 gm. bottle | | | | |
| **Product profile:** | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
| **BH955** | 14.64 g/l | 34.153 L | 7.0 | Nil | $121^0$C/ 15 min. |