**Cetrimide Agar Base**

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| **Product No.** | **Product Category** | **Specification** |
| HCM047 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For isolation and enumeration of *Pseudomonas aeruginosa* in water samples.

**Principle and Interpretation**

Peptone provide nitrogen; glycerol carbon source; potassium and magnesium can promote green pus pigment production; hexadecyl trimethyl ammonium bromide is a selective antibacterial agent, as a quaternary ammonium salt cationic detergent may bacterial cells release nitrogen and phosphorus and suppress non-Pseudomonas aeruginosa bacteria; agar is medium coagulant.

**Formulation**

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| **Ingredients** | **/liter** |
| Pancreatic digest of peptone | 20.0g |
| Magnesium chloride | 1.4g |
| Dipotassium sulfate | 10.0g |
| Cetrimide | 0.3g |
| Agar | 13.6g |
| pH7.2±0.2 at 25°C |

**Preparation**

Suspend 45.3 g/l. Add 10 ml glycerol/l. Autoclave (15 min at 121 °C).

**Quality Control**

Cultural characteristics observed after incubation at 35-37°C for 24 hours

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| **Quality control strains** | **Expected Results** | **Characteristics** |
| *Pseudomonas aeruginosa* ATCC9027 | Good | yellow-green pigments |
| *Pseudomonas aeruginosa* ATCC27853 | Good | yellow-green pigments |
| *Escherichia coli* ATCC25922 | Inhibition  | - |
| *Staphylococcus aureus* ATCC25923 | Inhibition  | - |

**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**

United States Pharmacopoeia 38 NF 33 (2015): <62> Microbiological examination of non-sterile products: Tests for specified microorganisms.

The European Pharmacopoeia. 8th Ed. Chapter 2.6.13 Microbiological examination of non-sterile products: Test for specified products.