**Oxford Agar Base**

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| **Product No.** | **Product Category** | **Specification** |
| HCM067 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

Used for the selective isolation and culture of *Listeria monocytogenes*.

**Principle and Interpretation**

Columbia Blood Agar Base provide carbon and nitrogen sources, vitamins and growth factors，maintains balanced osmotic pressure; Listeria hydrolyzes aesculin and reacts with iron ions to form black 6,7-dihydroxycoumarin; lithium chloride and other antibiotics can inhibit Gram-negative bacteria and most Gram-positive bacteria; agar is the coagulant of the culture medium.

**Formulation**

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| **Ingredients** | **/liter** |
| Columbia blood agar base | 39.0 g |
| Aesculin | 1.0 g |
| Ferric ammonium citrate | 0.5 g |
| Lithium chloride | 15.0 g |
| pH7.0±0.2 at 25°C | |

**Preparation**

Weigh 55.5 g of this product, add 1000 mL of distilled water or deionized water, stir, heat and boil until completely dissolved, divide into Erlenmeyer bottles, sterilize at 121℃ for 15 min. Cool to about 50℃, add 1 bottle of SR0500 supporting reagent A and 1 bottle of B per 100 mL, mix well and set aside.

**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** | **Growth** |
| *Listeria monocytogenes* ATCC19115 | Gray-green colonies with a black depression in thecenter and black surrounding |
| *Enterococcus faecalis* ATCC29212 | - |
| *Escherichia coli* ATCC25922 | - |

**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**

ISO 11290-1:1996

BAM Media M118