**WL Nutrient Agar**

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| **Product No.** | **Product Category** | **Specification** |
| HCM153 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the examination of materials encountered in brewing and for industrial fermentations containing mixed flora of yeasts and bacteria*.*

**Principle and Interpretation**

Yeast extract and casein enzymic hydrolysate provide nitrogen source, vitamins, and growth factors; glucose is fermentable sugar; potassium dihydrogen phosphate is an acid-base buffer; potassium chloride, calcium chloride, and ferric chloride maintain the osmotic pressure of the culture medium; magnesium sulfate and manganese sulfate provide divalent cations; various positive ions are provided; bromocresol green is an acid-base indicator; agar is a coagulant.

**Formulation**

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| **Ingredients** | **/liter** |
| Yeast extract | 4.0g |
| Casein enzymic hydrolysate(Tryptone) | 5.0g |
| Glucose  | 50.0g |
| Potassium dihydrogen phosphate | 0.55g |
| Potassium chloride  | 0.425g |
| Calcium chloride  | 0.125 g |
| Magnesium sulfate | 0.125 g |
| Ferric chloride  | 0.0025 g |
| Manganese sulfate  | 0.0025 g |
| Bromocresol green  | 0.022 g |
| Agar | 17.0g |
| pH5.5±0.2 at 25°C |

**Preparation**

Suspend 77.3g 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 30+/-2°C for 48-72hhours

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| **Quality control strains** | **Inoculum CFU** | **Expected Result** |
| *Saccharomyces cerevisiae* ATCC9763 | 10-100 | >50%,green colonies with dark green centres |

**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**

MacFaddin, 1985, Media for isolation-cultivation-identification-maintenance of medical bacteria, Vol. 1,Williams & Wilkins, Baltimore, Md.