

# Microbial Growth Media Selection Guide



## Helping you work smarter

### Yeast and Mold

Product Name:	Brettanomyces Selective Broth (BSM)	m-Green Yeast and Mold Broth	PRY (Preservative Resistant Yeast) Broth	Orange Serum Broth	Wallerstein Nutrient (WLN) Broth	Yeast and Mold Selective Broth
Article number	MHA00BSM2	MHA000P2M	MHA00PRY2	MHA000P2O	MHA000P2N	MHA00P2SM (with Chloramphenicol)
Application	Detection of <i>Brettanomyces</i> in wine and beer. Bacteria and other yeasts are inhibited.	A low pH culture medium used to detect yeast and mold and other aciduric organisms	A low pH selective culture medium for the detection of spoilage microorganisms resistant to acetic acid.	Used for the isolation and enumeration of acidophilic and aciduric microorganisms in water, beverages and foods.	Used to detect yeast and mold in worts, beers and other fermentation products. Used in conjunction with WLD.	Used to detect yeast and mold. Chloramphenicol is used to suppress background bacterial growth.
Recommended incubation conditions	5-7 days at 28-32 °C	48-72 h at 28-35 °C	3-5 days at 30 °C	48 h-5 days at 35 °C	48 h-5 days for yeast at 20 °C or 35 °C for bacteria	48-72 h at 35 °C
Typical colony characteristics	Colonies appear small, white and creamy.	Yeast appear as large green opaque colonies. Mold appears green and filamentous. Bacteria able to grow at this pH form smaller clear to white colonies.	Yellow colonies.	Yeast appear white, creamy and large. Bacteria are smaller, white or transparent.	Yeast appear as creamy, white larger colonies. Bacteria appear blue-green. Mold can appear non-pigmented to white, with various textures.	Yeast appear as large green and opaque colonies. Mold is green and filamentous.
pH at 25 °C	3.5 ±0.2	4.6 ±0.2 With time, a slight reduction in pH may be noticed, which will not affect the recovery performance of the product.	3.6 ±0.2	5.6 ±0.2 With time, a slight reduction of pH may be noticed, which will not affect the recovery performance of the product.	5.5 ±0.2	4.4 ±0.2
Pack size	50 pcs/pack	50 pcs/pack	50 pcs/pack	50 pcs/pack	50 pcs/pack	50 pcs/pack
Storage condition	2-10 °C	2-10 °C	2-10 °C	2-10 °C	2-10 °C	2-10 °C

### Selective Testing

Product Name:	Wallerstein Differential (WLD) Broth	de Man, Rogosa and Sharpe (MRS) Broth	Pseudomonas Selective Broth	m-FC Broth	m-ColiBlue24® Broth	m-Endo Total Coliform Broth
Article number	MHA000P2D	MHA00MRS2	MHA000P2P	MHA000P2F (with Rosolic Acid) MHA00FCR2 (without Rosolic Acid)	M00PMCB24	MHA000P2E
Application	Used in breweries to detect and enumerate bacteria present in small numbers in a mixed flora sample. Used in conjunction with WLN broth. Cycloheximide inhibits the growth of most yeast and mold, allowing bacteria to grow.	Used for the isolation and enumeration of lactic acid bacteria species in food and other samples.	Used for the detection of <i>Pseudomonas</i> species.	Enumeration of fecal coliforms by membrane filtration technique at an elevated temperature for waste or effluent water.	Chromogenic broth that simultaneously detects total coliforms and <i>E. coli</i> in water and beverages. This broth contains special inhibitors that prevent the growth of non-coliform bacteria but does not inhibit the growth of stressed organisms.	Used for the recovery of <i>E. coli</i> and coliform organisms in potable waters.
Recommended incubation conditions	48-72 h at 30-35 °C	48-72 h at 33-37 °C in a 5% CO <sub>2</sub> or in anaerobic atmosphere.	24-72 h at 35 °C	24 h at 44.5 °C	24 h at 35 °C	24 h at 35 °C
Typical colony characteristics	Bacteria appear small with a green-blue color. If cycloheximide resistant yeast grow, they are creamy, green white.	Colonies formed are small and white.	All growth on this medium indicate the presence of <i>Pseudomonas</i> species. Colonies that are blue-green, brown or show fluorescence at 366 nm are presumptive <i>P. aeruginosa</i> .	Fecal coliforms appear blue, other colonies appear gray to cream. In some rare cases, a membrane may show confirmed fecal coliforms that are pink in color.	Coliform = Red colonies <i>E. coli</i> = Blue Colonies	Typically pink to dark red in colour, with a green metallic sheen.
pH at 25 °C	5.5 ±0.2	6.5 ±0.2 With time, a slight reduction in pH may be noticed, which will not affect the recovery performance of the product.	7.1 ±0.2	7.4 ±0.2	7.0 ±0.2	7.2 ±0.2
Pack size	50 pcs/pack	50 pcs/pack	50 pcs/pack	50 pcs/pack	50 pcs/pack	50 pcs/pack
Storage condition	2-10 °C	2-10 °C	2-10 °C	2-10 °C	2-10 °C	2-10 °C
Note:					Best used with our sterile Petri-Pad™ dish MSP010063	

### Total Viable Count

Product Name:	m-HPC (Heterotrophic Plate Count) Broth	Tryptone Glucose Extract (TGE) Broth	Tryptic Soy Broth (TSB)
Article number	MHA000P2S	MHA000P2T MHA00P2TT (with TTC Indicator)	MHA000T2B
Application	Recovery of heterotrophic bacteria found in various types of water, especially high-purity or potable. Prior to use, warm the media at 30-50 °C until liquefied.	A non-selective medium to detect total heterotrophic microorganisms in water and other liquids.	Used to detect total heterotrophic microorganisms in water and other liquids.
Recommended incubation conditions	48-72 h at 25-35 °C	48-72 h at 35 °C	18-72 h at 30-35 °C
Typical colony characteristics	Clear to white colonies; some may produce pigment.	Colonies appear clear to creamy white; some may produce pigment. Tryptone Glucose Extract Broth with Indicator (TTC) produces red colonies.	Clear to white colonies; some may produce pigment.
pH at 25 °C	7.1 ±0.2	7.0 ±0.2	7.3 ±0.2
Pack size	50 pcs/pack	50 pcs/pack	50 pcs/pack
Storage condition	2-10 °C	2-10 °C	2-10 °C



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