

WL-DIFFERENTIAL MEDIUM™

Product #: EZ WL-D (4/Pack, 32/Case)
WL-Differential Agar (6/Pack, 48/Case)
WL- Differential Broth (50mL/Pack, 250mL/Case)

Intended Use

WL *Differential* Medium and WL *Differential* Broth are used for cultivating yeasts, molds and bacteria encountered in the wine and beer brewing industries. WL Differential Medium is used for isolating bacteria encountered in the wine and beer Brewing industries.

WL medium was developed in the Wallerstein laboratory in the 1950s for identification of microbes encountered in the brewing industries. WL differential medium contains cycloheximide that inhibits fast growing yeasts and allows for counting small populations of bacteria growing with yeasts.

Note: WL Medium is a rich growth medium that supports a wide variety of microbes. Everything that comes into contact with the medium besides the sample being tested should be sterile. All steps should be performed such that the chance of contamination is minimized.

Procedures:

1. Collect sample to be analyzed in a sterile collection tube.
 2. Apply 50 ul each to:
 - a. WL *Differential* Medium Plate - to be incubated aerobically to obtain total aerobic counts (mainly yeast colonies)
 - b. WL Differential Medium Plate – to be incubated aerobically for growth of acetic acid bacteria and others.
 - c. WL Differential Medium Plate – to be incubated anaerobically for growth of lactic acid bacteria and pediococcus
- *A similar approach can be taken using filtration and application of broth to Sartoreous Monitor filters.
3. After sample application spread applied solution using a sterile cell spreader or sterile glass beads, sold separately (included with EZ products).
 4. Incubate at 25 or 30C for 2 –4 days or up to 12 days for Brett SD Agar.
 5. Count colonies and multiply by applied volume to obtain CFU/ml.

Precautions

- Minimize the time that the lid is off the dish. Work in a draft-free environment.

- Avoid directly touching the agar medium
- Avoid cross contamination in the winery - when the test has been completed applied either 10% bleach or 70% alcohol to the plate and beads prior to disposal.

Storage

Store refrigerated between 2–8°C.

Related Products from Unitech Scientific LLC
(see reverse side)

Manufactured by Lebrun Labs LLC

Distributed by: Unitech Scientific LLC

12026 Centralia Road Suite H,
Hawaiian Gardens, CA 90716
Tel: 562-924-5150 Fax: 562-809-3140
info@unitechscientific.com

Related Products from Unitech Scientific LLC

- **Easy Blue™** Brett SD Agar with easy cell spreading
- **Brett SD™ Agar** Selective & differential for Brett
- **Brett SD Broth™** Selective & differential for Brett
- **Brett Sensory Set™** 4-phenolics for sensory evaluation
- **Easy Sniff™** For fast, Easy Sniff identification of Brettanomyces. Dual Media, Pro-Phenolic System
- **Brett Experience™** Brett high & low positive control wines & 3 Easy Blue tests
- **EZ Micro Starter Combo** Easy Wine Microbiology for: Brett, Yeast/Mold, & Bacteria. Contains 4-each of the following agar plates: Easy Blue, Easy WL-N, Easy WL-D; plus 1 Brett Experience (3 plates + Brett Samples), plus 15 sets of beads and droppers plus decontamination solution.
- **EZ WL-N** Easy to Count Yeast, mold & bacteria includes dropper, sterile beads & Agar Plates
- **WL-N Broth** Easy to Detect Yeast, mold & bacteria includes dropper, sterile beads & Broth
- **WL-N Agar Plates:** Detect and Count Yeast, mold & bacteria
- **BioSart 100 Monitors** (inquire about additional Unitech Scientific 0.45u membrane products) for concentrating microbes by filtration
- **Z-Brett 24** - 3-hour immunochemistry Brett Detection
- **Uni-Barrel Pipette**-Curved barrel racking tube with pipette bulb for controlled collecting (and releasing) of 15-20mL bottom samples.
- **Centrifuge** e.g. Microfuge Unitech *PN: LX-100*, \$180) 1.5mL centrifuge tube capability