



BRETT-SD™

Product # Brett SD-6 (6/Pack)
Brett SD -48 (48/Case)

Brettanomyces/Dekkera Selective & Differential Agar

Intended Use

For the detection and cell counts of Dekkera/*Brettanomyces* in juice or wine samples - this media is highly selective has a new proprietary spectrum of selection optimized for *Brettanomyces* in wine samples. The differentially media promotes relatively fast growth of this slow-growing organism. It is enriched with growth factors and specific nutrients including carbon sources specific for Brett; the media inhibits bacteria, other yeast & mold. *Brettanomyces* tends to settle to the bottom of barrels/tanks and bottom samples should (or mixed wine samples) are recommended.

Procedure

1. **Remove** parafilm™ from the plate(s). Apply 50 uL of the wine using a sterile (or clean) pipette and spread with sterile cell spreader – OR Concentrate wine by filtering through a 0.45-µm pore membrane and place the filter on the surface of the agar. Avoid trapping air bubbles between the membrane and agar.
2. **Cover plate** and seal in supplied self-sealing bag. Incubate plates at 25 °C–30 °C (or at room temperature) for several days. Plate orientation is not important; e.g. they may be stored upright in a file box for easy reference.
3. **Examine** the plates after 1–3 days, recording color change and phenolic odor. Examine over 12 days, recording the number of colonies.
4. **Consider positive if:**

- A phenolic medicinal or leathery odor is detected when opening the plate, generally in 24 hours.

Suggestion: Compare odor to an unused plate, and to the Brettanomyces Sensory Set™ (sold separately).

- Color of agar changes from blue to yellow within 1–12 days
- Colony growth is detected between 3–12 days;

colonies appear cheesy, whitish-yellow

Statistically Positive Results - 3 to 10 distinct colonies are considered positive. *If you observe 1 or 2 colonies, repeated test in triplicate to verify quantitation of Brett –or concentrate wine by microfiltration, place the 0.45µ membrane on the agar and retest (see 1 above.)*

5. Interpretation - Cell Counts (Wine as Sample)

Multiply observed colonies by 20 for colony forming units(cfu)/mL (*note: 5-Drops = 50uL*).

Detection Limit: 3 colonies/50uL = 60 cfu/mL of (unconcentrated) wine.

Interpretation of Concentrated Samples: *If testing microfilter concentrated wine, divide the colonies observed by the volume of wine tested to obtain cfu/mL. e.g. Detection Limit for 1Liter of microfiltered wine is 3 colonies/L.*

TNTC: Record that your sample is TNTC (Too Numerous To Count) i.e. contains over 10,000 cfu/mL, if:

- Agar color changes
- Penolic odor development is rapid (1–3 days)
- A haze develops over the entire plate. *Brettanomyces* at high levels produce phenolics that taint the wine.

Possible action to take for TNTC results:

- Immediately filter or otherwise sanitize the wine.
- Repeat Easy Blue testing with 1:10 serial dilutions to determine the exact cell concentration and confirm the extent of *Brettanomyces* contamination.
- Retest after remediation to make sure that it was effective.

Precautions

- Minimize the time that the top 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

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Related Products from Unitech Scientific LLC

- **Easy Blue™** Brett SD Agar with easy cell spreading
- **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.
- **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.
- **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
- **EZ WL-D** Easy to Count bacteria includes dropper, sterile beads & Agar Plates
- **WL-D Agar Plates:** Detect and Count bacteria
- **Centrifuge** e.g. Microfuge Unitech *PN: LX-100*, \$180) 1.5mL centrifuge tube capability