



Unfiltered Bottling Panel - Panel 4

The Unfiltered Bottling Panel is one of the most valuable panels Vinquiry offers and is essential analysis when unfiltered wine is the desired style. The panel provides information on the risks associated with bottling a wine unfiltered. It also checks for stability regarding both primary and malolactic fermentation. There are separate panels specifically tailored for red and white wines.

Unfiltered Bottling Panel Includes:

For Red Wine:

- Glucose/Fructose (enzymatic)
- Malic Acid (enzymatic)
- Turbidity (turbidimeter)
- Volatile Acidity (segmented flow analyzer)
- 4-ethylphenol & 4-ethylguaiacol (HPLC)
- Culture for Yeast
- Culture for *Brettanomyces*
- Culture for Bacteria

For White Wine:

- Glucose/Fructose (enzymatic)
- Malic Acid (enzymatic)
- Turbidity (turbidimeter)
- Volatile Acidity (segmented flow analyzer)
- Culture for Yeast
- Culture for Bacteria

Components of the Panel

Testing for **Glucose/Fructose** establishes the completeness of primary fermentation.

The **Malic Acid** test is needed to determine the status of malolactic fermentation (MLF).

The test for **Turbidity** looks at the aesthetic acceptability of wine by measuring the quantity of suspended particles. High turbidity may also cause adverse sensory effects.

Volatile Acidity (VA) analysis checks for evidence of bacterial spoilage. If volatile acidity is high, spoilage organisms possibly are, or have been, present.

The presence of **4-ethylphenol & 4-ethylguaiacol** (4-EP & 4-EG) indicate activity of *Brettanomyces* yeast. 4-EP & 4-EG are chemical markers of *Brettanomyces* that are important to consider especially when culture results may be negative.

The **Culture for Yeast** assesses the potential for yeast refermentation. The culture reports the number of colony forming units per milliliter (cfu/mL).

The **Culture for *Brettanomyces*** reports the presence and quantity of *Brettanomyces* yeast.

The **Culture for Bacteria** detects the current presence of bacteria and enumerates the different types and population levels.

Sampling

The panel requires at least 500mL of sample. Minimal headspace is essential. Please send samples in plastic containers only. Complementary plastic sample bottles are available from all three Vinquiry locations. Please call the phone number below to have sample bottles shipped to you.

For further information on the Unfiltered Bottling Panel please call 707-838-6312.