

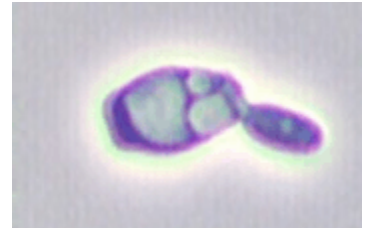
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PCR ANALYSIS FOR BRETTANOMYCES

Brettanomyces contamination can quickly become a costly problem for a winery. Once *Brettanomyces* is introduced, it can easily be spread through hoses, equipment, humans and insect vectors. As soon as contamination is detected, proper procedures should be taken to minimize spoilage.

PCR analysis for the detection of *Brettanomyces* is a method now available at Vinquiry. PCR (polymerase chain reaction) is a rapid method to identify organisms by the amplification and detection of unique sequences of their DNA.



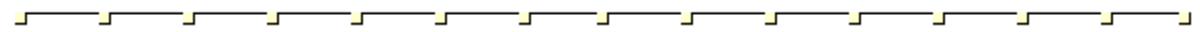
One advantage of the PCR method is that *Brettanomyces* results can be available in two days, as opposed to a full week with the traditional culture plating method. This rapid detection allows winemakers to take the appropriate steps to limit spoilage and maintain the quality of the wine.

In Real-Time PCR, millions of copies of unique genetic sequences from specific organisms are generated, detected and quantified with fluorescent probes in about an hour after the DNA is isolated. The fluorescence produced is proportionate to the number of copies generated, which in turn is proportionate to the number of *Brettanomyces* cells in the sample. The duration of time it takes to reach a predetermined threshold of fluorescence can be compared to a standard curve which is constructed from a dilution series of *Brettanomyces* cells subjected to the same process.

Coming Soon

Vinquiry is currently validating protocols for PCR detection for a range of organisms commonly found in wine, including *Zygosaccharomyces bailii*, *Lactobacillus*, and *Pediococcus*.

Contact the Vinquiry laboratory at 707-838-6312 or info@vinquiry.com for any questions.



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