



VINEO™ *Brettanomyces* PCR Kit

Molecular Diagnostics Serving Enology

- Specific: targets the spoilage yeast *Brettanomyces bruxellensis*
- Safe: controls the risk of ethylphenol production
- Fast: provides results in less than 4 hr
- Quantitative: can be used to quantify the *B. bruxellensis* risk in order to adapt the level of prevention and/or reaction
- Robust: obtains reliable results throughout the process, from fermenting musts through finished wines
- Comprehensive: offers the ability to perform PCR analysis of *B. bruxellensis* and *Zygosaccharomyces bailii* at the same time
- Easy to use: CFX Manager™ Software IDE automates quantitative and intuitive analysis

Visit us on the web at bio-rad.com/web/VINEO for more information.



VINEO *Brettanomyces* PCR Kit



VINEO Extract DNA Kit



Detection and Quantification of *B. bruxellensis* by PCR

B. bruxellensis is a yeast responsible for the growth of 4-ethylphenol and 4-ethylguaiacol, which can impart a strong “off” taste and odor and can affect a wine throughout its development.

Compared with the traditional microbiological method and other less specific methods, the molecular biology of PCR provides solutions for quick detection with high sensitivity and specificity. VINEO *Brettanomyces* PCR Kit is a quantitative test for the specific detection of *B. bruxellensis* in wines and fermenting musts using real-time PCR.

Implementing this test provides a quantitative result less than 4 hours after DNA extraction using VINEO Extract DNA Kit (catalog #3548100). CFX Manager Software Industrial Diagnostic Edition uses an automatic and quantitative analysis to measure the risk of *B. bruxellensis* in a wine sample. The software then proposes an interpretation of the risk level to the user based on the number of colony forming units (CFU)/ml detected in the wine.

Two DNA extraction protocols are available

Interest	1.8 ml Quantification	45 ml Presence/Absence
Wine in fermentation	•	—
Wine in maturation	•	—
Wine ready for bottling	•	•

The ability to accurately and reliably measure the quantity of *B. bruxellensis* accompanies you in decision-making throughout the winemaking process.

Protocol

Sampling

- Fermenting musts
- Maturing wine
- Wine ready for bottling



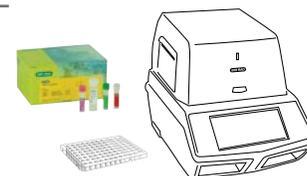
DNA Extraction

- VINEO Extract DNA Kit



DNA Amplification with Real-Time PCR

- VINEO *Brettanomyces* PCR Kit



Analysis and Interpretation

- CFX Manager Software IDE
- Results in less than 4 hr



Ordering Information

Catalog # Description

Kits

- 3548100 VINEO Extract DNA Kit, 96 tests
- 3548101 VINEO *Brettanomyces* PCR Kit, 96 tests
- 3548102 VINEO ZYGO *baillii* Kit, 96 tests

Instruments

- 3594990 Industrial Diagnostic CFX96 Touch™ Deep Well Real-Time PCR Detection System, 96 wells (#3600037 for North America)
- 3593593 CFX Manager Software Industrial Diagnostic Edition (#3600042 for North America)

Consumables

- MLL9651XTU 96-Well Low-Profile Unskirted PCR Plates, white, 25
- MLL4851XTU 48-Well Low-Profile Unskirted PCR Plates, white, 50
- TLS0851XTU Low-Profile 0.2 ml PCR 8-Tube Strips without Caps, thin-walled, white, 120
- TCS0803XTU Optical Flat 8-Cap Strips, for 0.2 ml tubes and plates, ultraclear, 120



Bio-Rad
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Group

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