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Laboratoire d'Analyses Oenologiques

ANALYSIS REPORT

Customer identification : TONNELLERIES VICARD
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Attention to Jean-Charles Vicard

Reception date: 23/02/2010

Sample description: Scarified stave / non scarified stave

Aim of the trial: study of the impact of wood perforation on microbial population

Protocol at sample reception

- Immersion of stave (scarified / non scarified) in a wine containing *Brettanomyces* yeast and acetic bacteria (known populations).
- Storage at 25°C for 48 hours under stirring
- Cleaning of the staves with cold sterile water
- Recovery of wood scrapings in :
 - o scarified zones
 - o joints
 - o "polished" zones
- Maceration of scrapings in a sterile wine (sterile filtration) for 24 h at 25°C under stirring for research and counting of *Brettanomyces* yeasts and acetic bacteria.

Les résultats ne sont reproductibles que sous certaines conditions. Ils ne concernent que les échantillons soumis à l'essai.

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Results

Initial wine :

Brettanomyces population : 3.10^2 CFU*/mL

Acetic bacteria population : $3.3.10^4$ CFU/mL

* Colony Forming Unit

Analysis results of scrapings from the different staves:

| <i>Brettanomyces</i> population (en CFU/g) | | | |
|---|-----------------|---------------------|----------------|
| | Scarified zones | Non scarified zones | Polished zones |
| Scarified zones / closed joint | 2.10^1 / g | - | $1.7.10^1$ / g |
| Non scarified zones / opened joint | - | $2.1. 10^1$ / g | $1.9.10^1$ / g |
| Acetic bacteria population (en CFU/g) | | | |
| | Scarified zones | Non scarified zones | Polished zones |
| Scarified zones / closed joint | 4.10^3 / g | - | $3.2.10^3$ / g |
| Non scarified zones / opened joint | - | $4.8. 10^3$ / g | $3.2.10^3$ / g |

Comments & Conclusion

Brettanomyces & acetic bacteria population are not significantly different between scarified and non scarified staves.

Under our trial conditions, perforation has no negative impact on microbial population remanence in wood.

Floirac, 7 April 2010

Marie-Laure MURAT
Laboratory manager

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