



**SARCO**

Laboratoire d'Analyses Cœnologiques

## ANALYSIS REPORT

**Customer identification : TONNELLERIES VICARD**  
**184, rue Haute de Crouin**  
**BP63**  
**16102 COGNAC**

### 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:

<b><i>Brettanomyces</i> population (en CFU/g)</b>			
	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
<b>Acetic bacteria population (en CFU/g)</b>			
	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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