



Gibertini's Nucleo Counter, a fluorescent microscope to count total and non-viable yeast cells in less than a minute, may be a valuable fermentation tracking tool.

**Lab Equipment**  
**Gibertini Nucleo Counter Measures Yeast Cells Fast**

**What:** Fluorescence Microscope  
**Uses:** Precise counting of non-viable and total yeast cells  
**Cost:** \$20,000 estimated  
**Manufacturer:** Gibertini  
**Distributor:** H-B Instrument

This \$20,000 fluorescence microscope counts total and non-viable yeast cells in less than a minute. It may be a valuable tool for tracking the process of fermentation, determining the presence of wild yeast and helping to avoid stuck fermentations. Yeast cell counts by current culturing methods can take two to three days, but with this Italian-made technology winemakers can have nearly instant feedback. Hektor Preza of Gibertini thinks it will be especially useful to sparkling wine producers.

He said the winemaker or lab tech prepares a diluted sample of must or wine, adds 1 nanoliter to a disposable cassette containing a fluorescent marker agent, propidium iodide, that dissolves in the must and dyes the DNA of the yeast. One then inserts the cassette into the

Nucleo Counter, which counts the cells and displays the results on a small screen. Alternately, it can also send the results to your computer via a USB cable. The software package for the Nucleo counter costs an additional \$1,500.

The fluorescent dye stains the DNA of cells with non-intact cell membranes (non-viable cells). Living cells have intact membranes and reject the dye, preventing it from reaching the DNA. So the first test counts the non-viable cells, giving results in a range of  $5 \times 10^3$  to  $2 \times 10^6$  cells/ml. If the winemaker also wants a total yeast cell count, one then adds a compound to kill the viable cells, and the count is repeated. The difference in the count is the viability of the sample.

**Sophisticated Screwcaps**  
**Alcan Stelvin Lux Is a Smooth Twist-Off**

**What:** Screwcap closure that hides threads  
**Uses:** Adds high-quality appearance  
**Cost:** About twice the standard screwcap  
**Manufacturer:** Alcan Packaging  
**Distributor:** Alcan Packaging

Alcan's Stelvin Lux takes the screwcap to a more luxurious level by hiding the screw



**burgundy ink**  
writing services for the wine industry

*Got content?*

**Burgundy Ink writes engaging, effective content for you:**

- ... Brochures
- ... Web sites
- ... Slicks
- ... Newsletters
- ... and more

[www.BurgundyInk.com/wv3](http://www.BurgundyInk.com/wv3) • 602.391.9536


With Green's **HYD-ROW-HOE** and attachments you can reduce or eliminate herbicides to control weeds around plants, shrubs, or vines. Additional attachments connect easily.

- Hydraulic powered Auger for vine replacements.
- Hydraulic powered Weed Mower cuts down big weeds easily.




**The Green Hoe Company, Inc.**  
 Box 75  
 Portland, NY 14769  
 PHONE (716) 792-9433  
 FAX (716) 792-9434  
[WWW.GREENHOECOMPANY.COM](http://WWW.GREENHOECOMPANY.COM)

**THE GREEN HOE**  
COMPANY, INCORPORATED



**RANDOX**  
clinical diagnostic solutions

Assays for assessment of wine quality



email: [randoxus@randox.com](mailto:randoxus@randox.com)

**AWARD WINNING FLEXOGRAPHIC PRINTING**

**FOIL STAMPING & EMBOSSEING**

**DIGITAL OFFSET PRINTING**

**CUSTOM DIE-CUTTING**

**LABEL DESIGN SUPPORT**

**408-761-2142**

[www.elitelabel.com](http://www.elitelabel.com)



\*SEE US AT UNIFIED, BOOTH #135

\*SEE US AT UNIFIED, BOOTH #204