

# Real-time PCR – Detection of yeast and bacteria in wine

Precise, fast and efficient analysis for the highest wine quality



Multiplex Screening of yeast and bacteria

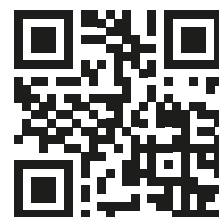


Brettanomyces quantification



Open system

More information:



<https://r-bio/wine>

# GEN-IAL® QuickGEN Benefits



**Fast and reliable detection** within a few hours and accurate information about potentially harmful yeasts and bacteria in the sample.



**High sensitivity and specificity** in must and wine samples.



**Easy handling** – The user-friendly design of the kits with lyophilized tubes makes performing the tests effortless and efficient. Kit specific templates allow a quick start of the analysis without any programming in advance.



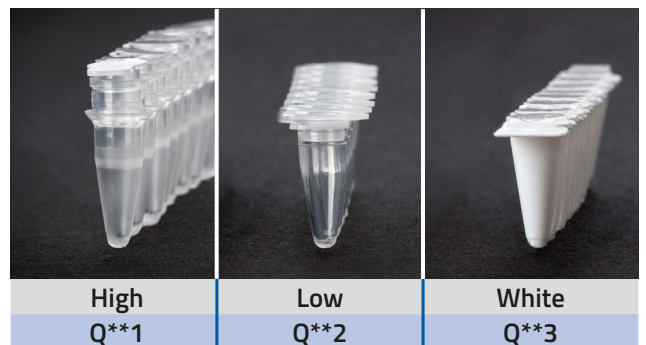
**Comprehensive analysis options and efficient use of resources** – Various combinations of multiplex screening and identification options enable cost-effective and individual routine analysis.



**Training and ongoing support** – application specialists provide on-site training and are always available to answer questions and solve problems.



**GEN-IAL® QuickGEN Wine Screening (Art. No. Q32\*)** enables a quick overview of the microbiological status: *Lactobacillus*, *Pediococcus*, *O. oeni*, acetic acid bacteria, yeast, inhibition control



**High:** Agilent MX3005P, Applied Bioscience, ABI 7500 or higher, ThermoFisher QuantStudio®5 or higher, 0,2 mL Block

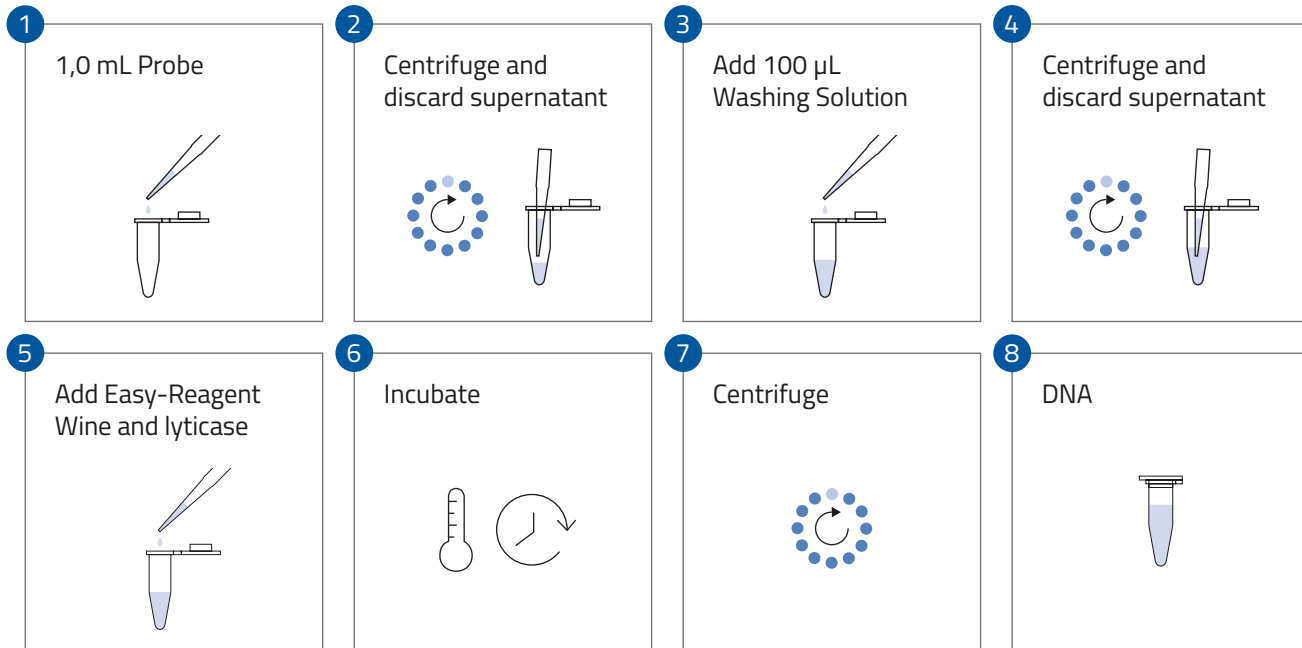
**Low:** IT-IS MyGo Pro\*, MyGo ESR\*, QuantStudio® 5 or higher, 0.1 mL Block

**White:** Roche Lightcycler® 480 II und LC96, BioRad CFX96™, CFX Opus 96™, Analytik Jena qTOWER<sup>3</sup>

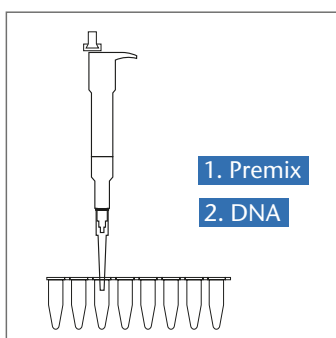
\* 4plex-Tests for MyGo Pro/ESR require a special kit (Qxy4, z. B. Q024, Q044).

## Workflow von sample to result

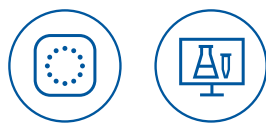
### DNA Extraction – only one protocol for bacteria and yeast detection



### qPCR set-up with a few pipetting steps



### Start analysis



- 1** Pick and open template
- 2** Enter sample names
- 3** Start run

### Ergebnis



Qualitative screening



Brettanomyces quantification



# GEN-IAL® Products

Product	Description	No. of Tests/Amount	Art. No.
<b>Wine</b>			
<b>DNA preparation</b>			
Simplex® Easy Wine	Microbial DNA extraction from wine samples	100 preparations	Q300
Simplex® Easy Wine-Washing Solution	Additional washing solution for Q300	43 ml	Q301
GEN-IAL® Yeast Lyticase	For yeast DNA preparation	2000 preparations	Q302
<b>Qualitative multiplex real-time PCR</b>			
GEN-IAL® QuickGEN Wine Screening	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> , <i>Pediococcus</i> , <i>O. oeni</i> /acetic acid bacteria/yeasts	48 reactions	Q321 Q322 Q323 Q324
GEN-IAL® QuickGEN Wine Screening without yeast	DNA screening of wine spoilage bacteria: <i>Lactobacillus</i> , <i>Pediococcus</i> / <i>O. oeni</i> /acetic acid bacteria	48 reactions	Q331 Q332 Q333 Q334
QuickGEN PCR Kit Screening and differentiation of wine spoilers	Differentiation of 14 wine spoilage bacteria and yeasts: <i>Alicyclobacillus</i> spp., <i>O. oeni</i> , <i>Lactobacillus</i> / <i>Pediococcus</i> , <i>Leuconostoc mesenteroides</i> , <i>Lactococcus lactis</i> , acetic acid bacteria, <i>Dekkera</i> spp., <i>S. cer. var. diastaticus</i> , <i>Pichia</i> spp., <i>Zygosaccharomyces</i> spp., <i>S. cerevisiae</i> , <i>Schizosacch. pombe</i> , <i>Candida</i> spp.	96 reactions	Q221 Q222 Q223
QuickGEN PCR Kit Screening and differentiation of wine spoilers	Differentiation of 8 wine spoilage bacteria and yeasts: <i>O. oeni</i> , <i>Lactobacillus</i> / <i>Pediococcus</i> , acetic acid bacteria, <i>Dekkera bruxellensis</i> , Yeast, <i>Z. rouxii</i> , <i>Z. bailii</i> , <i>S. cerevisiae</i>	96 reactions	Q231 Q232 Q233
GEN-IAL® Biogenic amines	Detection of biogenic amines producing bacteria	50 reactions	Q345
GEN-IAL® Dekkera bruxellensis Standard DNA	DNA standard for quantitation of <i>Dekkera bruxellensis</i>	200.000 cfu	Q360
GEN-IAL® QuickGEN Yeast Dekkera bruxellensis quantitative	Detection of <i>Dekkera bruxellensis</i>	48 reactions	Q371 Q372 Q373
GEN-IAL® Dekkera bruxellensis quantitative FAM/HEX	Detection of <i>Dekkera bruxellensis</i> FAM/HEX	50 reactions	Q395
GEN-IAL® QuickGEN PCR-Kit Yeast universal low	Detection of yeast universal	48 reactions	Q982



Further parameters/species detection kits are available on request.



Contact us today for further information and assistance:  
[info@r-biopharm.de](mailto:info@r-biopharm.de)