

GEN-IAL® real-time PCR

Solutions for fruit juice safety and quality control



Comprehensive coverage:

Tailored for key spoilage organisms in the fruit juice and soft drink industry



Practical:

Multiplex kits and precoated PCR tubes



Open system:

Different PCR tube formats available

More information:



<https://r-b.io/soft>

GEN-IAL® products for fruit juice analysis

Your benefits



Flexible:
Variety of cyclers can be used



Ease of use:
Lyophilized tubes allow effortless & efficient PCR set-up. Kit-specific templates permit a quick start of the analysis without any programming in advance

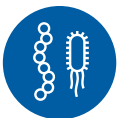


Comprehensive training:
We offer full training to ensure your team is ready to operate efficiently



Technical support:
Our experts are available around the clock to assist with any queries support

Parameter



Bacteria
• *Alicyclobacillus*



Yeast
• Yeast total
• *Zygosaccharomyces bailii*
• *Zygosaccharomyces rouxii*

For more parameters visit
<https://r-b.io/mibi-en>



Ensure the highest standards in your production line with our GEN-IAL real-time PCR kits.

Alicyclobacillus

Detect these spore forming spoilage bacteria that cause off-flavors and odors in fruit juices. Ensure your product remains fresh and appealing. Real-time PCR enables faster and specific results after approx. three days pre-enrichment in BAT medium. The DNA preparation has been optimized for detection of bacteria and spores out of difficult matrices, as pulp being rich of fibers.

Yeast

Yeast are major spoilage microorganisms in juices. Prevent yeast contamination that can alter visual, taste odor and carbonation levels in your beverages. Maintain product consistency and protect your brand from unwanted fermentation.



Real-time PCR workflow

DNA preparation and qPCR set-up


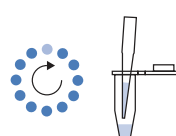
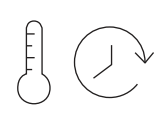
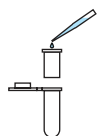
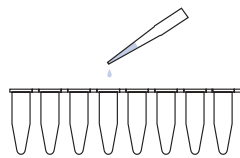

- The DNA preparation kit Q701 enables the use of difficult matrices as pulp, juice and concentrates.
- For filterable and non-filterable samples

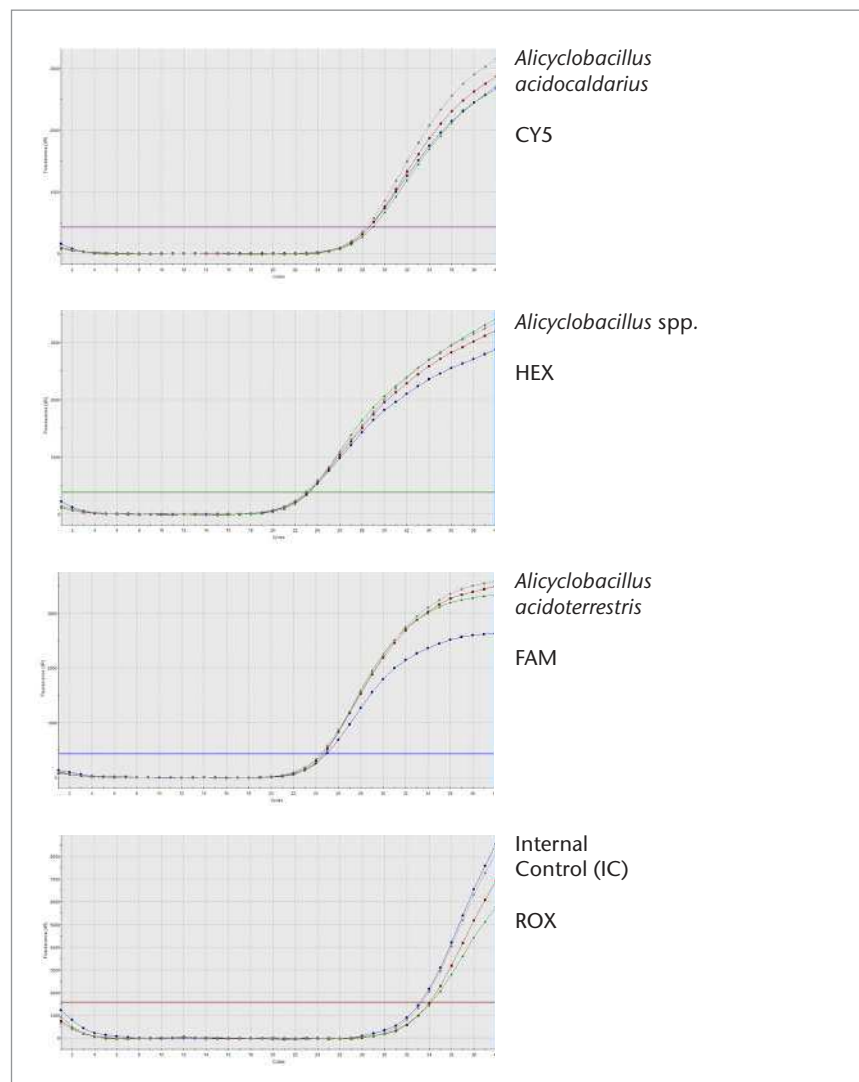
Results

Qualitative detection and identification of:

- *Alicyclobacillus* spp.
- *A. acidoterrestris*
- *A. acidocaldarius*

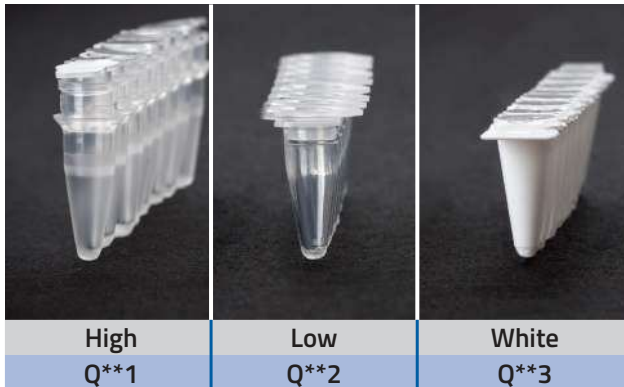
Workflow

- 1 Enrichment**
 Juices or juice concentrates will be preincubated 1:10 in BAT medium
- 2 Sampling**
 2 mL representative sample
 
- 3 Centrifugation and removal of fibers and debris**

- 4 Thermal and lysozyme mediated lysis**

- 5 Binding of DNA to spin filter, purification & elution**

- 6 Real-time PCR set-up**
 1. Premix
 2. DNA
- 7 Start analysis**
 - Pick template
 - Enter sample names
 - Start run



Order information

Produkt	Beschreibung	Packungsgröße	Art. Nr.
DNA preparation			
Simplex® Easy DNA Kit	DNA preparation of beverages	100 preparations	Q001
Simplex® Easy Spin DNA Kit	Alicyclobacillus DNA preparation e.g. from fruit or vegetable juices or concentrates	50 preparations	Q701
GEN-IAL® Simplex® Easy Spin PLUS DNA	Alicyclobacillus DNA extraction from fruit or vegetable juices or concentrates without enrichment	50 preparations	Q705
Bacteria			
GEN-IAL® QuickGEN Alicyclobacillus differentiation	Qualitative identification of <i>Alicyclobacillus</i> spp., <i>Alicyclobacillus acidocaldarius</i> and <i>Alicyclobacillus acidoterrestris</i>	48 reactions MyGo Pro/ESR	Q721 Q722 Q723 Q724
Yeast			
GEN-IAL® QuickGEN Yeast <i>Zygosaccharomyces bailii</i>	Specific DNA detection of <i>Zygosaccharomyces bailii</i>	48 reactions	Q561 Q562 Q563
GEN-IAL® QuickGEN PCR Kit <i>Zygosaccharomyces rouxii</i>	Specific DNA detection of <i>Zygosaccharomyces rouxii</i>	48 reactions	Q581 Q582 Q583
GEN-IAL® QuickGEN PCR Kit Yeast universal	Qualitative detection of yeast DNA	48 reactions	Q982



High:

Agilent MX3005P, Applied Bioscience, ABI 7500 or higher, ThermoFisher QuantStudio®5 or higher

Low:

IT-IS MyGo Pro*, ABI 7500 FAST or higher

White:

Roche Lightcycler® 480 II and LC96 BioRad CFX96™, Analytik Jena qTOWER³

* 4plex tests for MyGo Pro/ESR require a special kit (Qxy4, e.g. Q724)



Do you need more information? Talk to us at:
info@r-biopharm.de