



THE POWER OF **MOLECULAR DIAGNOSTICS**  
IN THE PALM OF YOUR HAND®



**3 HOUR DETECTION FOR  
ALICYCLOBACILLUS SPECIES PROTECTS  
YOUR PRODUCT AND YOUR BRAND**

**RESULTS  
IN UNDER  
THREE  
HOURS**

**Introducing Veriflow® ACB**  
**From Sample to Detection in Under 3 Hours**

*Alicyclobacillus* (ACB) species are non-pathogenic spoilage bacteria found in the fruit juice and beverage industries. These microorganisms are resistant to low pH environments and thermal processing (pasteurization), which presents quality concerns for processors due to the production of off flavors and odors in contaminated products.

Traditional ACB testing methods are dated and limited by wait times and the inconclusive results of plating, or the expense and complexity of conventional molecular technologies. These limitations make it impossible to address these spoilage organisms in real-time – and can result in facility contamination, production inefficiencies and holds or shipping product at risk.

**Veriflow ACB** is the only *Alicyclobacillus* tool with proven accuracy, minimal sample preparation and quantitation of results in less than 3 hours from sample collection – providing actionable results that enable you to optimize your quality processes.

1. Eliminates the need for culturing or bacterial enrichment
2. Accelerates release of raw material and final product
3. Prevents processing, bottling and shipping at risk
4. Fast time to results allows traceability to the point of contamination

**VERIFLOW DNA SIGNATURE CAPTURING TECHNOLOGY**

<b>DNA Amplification</b>	Proprietary reagents eliminates need for sample purification
<b>DNA Identification</b>	Proprietary DNA signature detection specifically targeting juice and beverage spoilers
<b>Visualization of Results</b>	Proprietary vertical flow mediated visualization of results for easy interpretation
<b>Sample preparation</b>	No enrichment or purification steps required

**VERIFLOW ACB PERFORMANCE SPECIFICATIONS**

<b>Sensitivity</b>	< 10 cells/mL
<b>Time to Results</b>	< 3 hours
<b>Matrix Compatibility</b>	Juice, juice concentrates, purées
<b>Assay Configuration</b>	Qualitative and quantitative

**Specificity**  
*Alicyclobacillus* species including *A. acidoterrestris*, *A. acidiphilus*, *A. cycloheptanicus*, *A. herbarius*



P. 215.966.6118 | F. 215.921.5091 | Email [info@invisible sentinel.com](mailto:info@invisible sentinel.com) | [www.invisible sentinel.com](http://www.invisible sentinel.com)

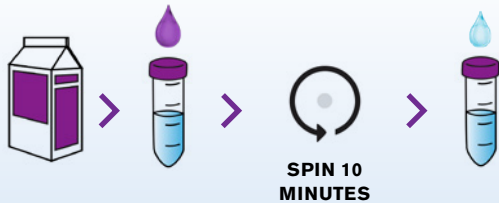
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# INVISIBLE SENTINEL

## ACB TEST PROTOCOL

**COLLECTION** Collect 5 mL sample and transfer to 20 mL dH<sub>2</sub>O. Centrifuge and decant sample. Resuspend sample using provided proprietary buffer ACB.

### START

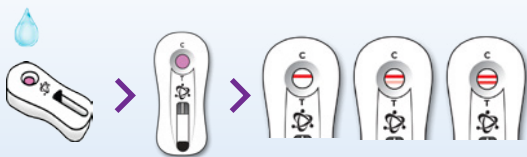


**AMPLIFY** Transfer 50 µL of resuspended sample into 1.5 mL tube and vortex. Add 5 µL of sample into provided PCR reagent tube. Place tube into thermocycler and run program.



**ANALYSIS** Remove PCR tube from thermocycler and add proprietary Buffer B. Dispense PCR tube contents onto test cassette window. Wait 3 minutes and retract cassette switch to reveal test results. One line indicates negative results, two lines indicate positive results.

### FINISH



## The Technology

### Proven platform delivers speed, accuracy and sensitivity

The *Veriflow ACB* system is part of the Veriflow suite of tests, a game changing technology that combines proven diagnostic principles for microbial detection and innovative first-in-class scientific approaches.

Veriflow technology offers unparalleled performance combined with ease of use and is utilized for rapid detection of microbes in various sample types. The technology is AOAC certified for foodborne pathogen detection and has been widely adopted by food manufacturers, global 3rd party testing labs and more recently by premium wineries and breweries.

*Veriflow ACB* was developed specifically for the beverage industries and has been validated and implemented by major quality conscious juice producers.

## MORE INFORMATION

Please visit us online at [www.invisiblesentinel.com](http://www.invisiblesentinel.com).



ITEM #	DESCRIPTION	SIZE
IS1024	Veriflow ACB Complete Test System Includes: Mastermix Reagents, Cassettes and Buffers	1 Kit 24 Tests
ISTC002	Veriflow Thermocycler	1 Unit
IS0904	Veriflow Loading Tray	1 Unit
ISRD001	Veriflow Reader	1 Unit