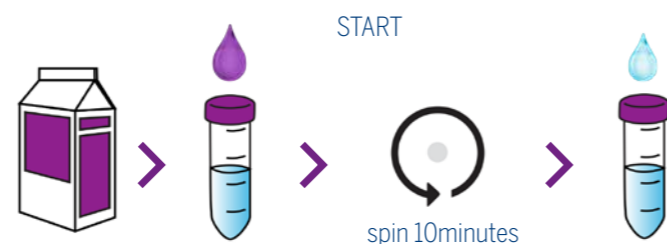




### ACB TEST PROTOCOL

#### COLLECTION

Collect 5 mL sample and transfer to 20 mL dH2O. Centrifuge and decant sample. Resuspend sample using provided proprietary buffer ACB.



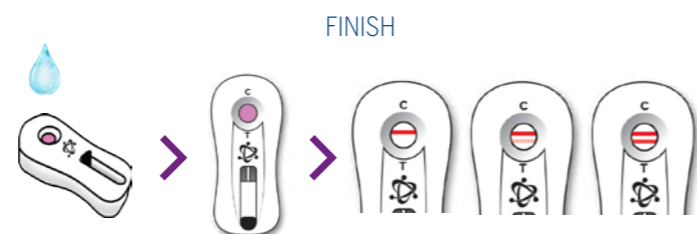
#### AMPLIFY





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.

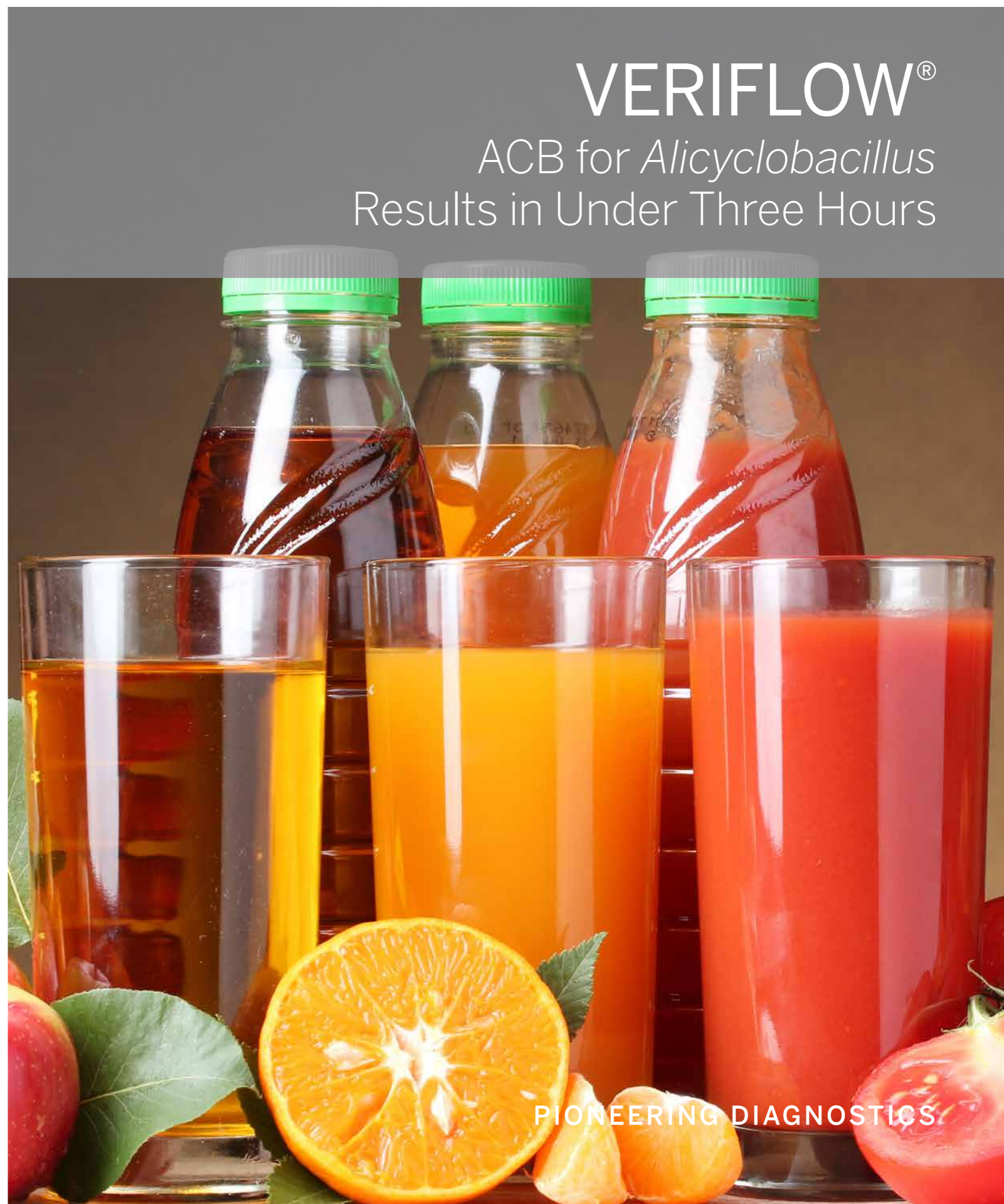


ITEM #	DESCRIPTION	SIZE
IS6024	 Veriflow ACB Complete Test System Includes: Mastermix Reagents, Cassettes and Buffers	1 kit - 24 tests
ISTC002	 Veriflow Thermocycler	1 Unit
IS0904	 Veriflow Loading Tray	1 Unit
ISRD001	 Veriflow Reader (Optional)	1 Unit

# VERIFLOW<sup>®</sup>

## ACB for *Alicyclobacillus*

### Results in Under Three Hours



PIONEERING DIAGNOSTICS

# 3 hour Detection for *Alicyclobacillus* species Protects

## The Power of Molecular Diagnostics in the Palm of your Hand®

### 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

### 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.



#### VERIFLOW DNA SIGNATURE CAPTURING TECHNOLOGY

DNA Amplification	Proprietary reagents eliminates need for sample purification
DNA Identification	Proprietary DNA signature detection specifically targeting juice and beverage spoilers
Visualization of Results	Proprietary vertical flow mediated visualization of results for easy interpretation
Sample preparation	No enrichment or purification steps required
Current utilization	Food and juice manufacturers, premium wineries, craft breweries; global 3rd party testing labs; U.S. and international

#### VERIFLOW ACB PERFORMANCE SPECIFICATIONS

Sensitivity (LOD)	< 2-3 cells/mL
Time to results	< 3 hours
Matrix compatibility	Juice, juice concentrates, purées
Assay configuration	Qualitative and quantitative
Specificity	<i>Alicyclobacillus</i> species including <i>A. acidoterrestris</i> , <i>A. acidiphilus</i> , <i>A. cycloheptanicus</i> , <i>A. herbarius</i>