

SPEED

RELIABILITY

SPECIFICITY



**MICA**  
*Fluorescence*

***Alicyclobacillus***



## ***Alicyclobacillus guaiacol* +**

**Detects the presence of *Alicyclobacillus guaiacol* positive (including *A. acidoterrestris*)**

Fruit juice  
Flavoured waters  
Other fruit drinks  
Raw materials (Purees, Hydrolats, ...)

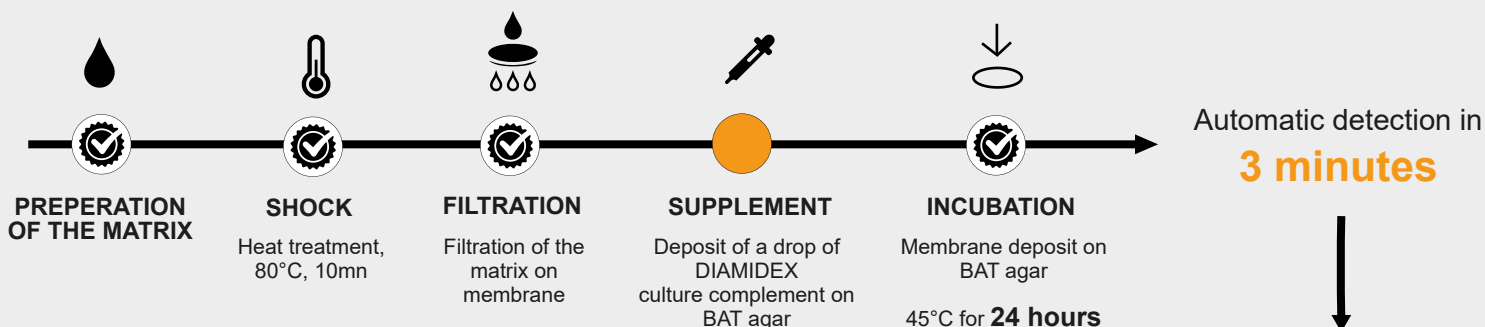
- ✓ **24 hours of incubation only**, against 8 to 14 days with the standard method
- ✓ **No confirmation test needed**
- ✓ **Same procedure as the standard method** IFU No. 12: 2019
- ✓ **Filterable and non-filterable matrices**
- ✓ **Non-destructive method**
- ✓ **Limit of detection: 1 CFU\* / per membrane**



AOAC certification  
in progress

CE | UK  
CA

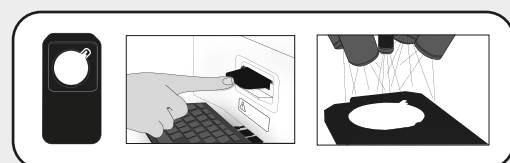
## Protocol based on the **IFU No. 12:2019** method



\*CFU : Colony Forming Unit

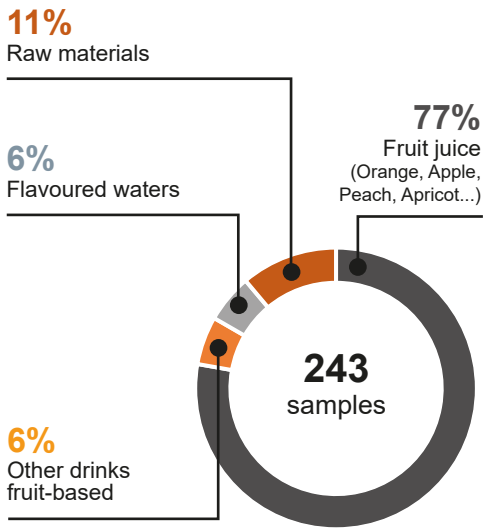
More info

> [diamidex.com](http://diamidex.com)



## MATRICES TESTED

Tested on **18** types of matrices.



## INCLUSIVITY / EXCLUSIVITY

SPECIES / SEROGROUPS	NUMBER OF STRAINS	ORIGIN	DETECTION WITH MICA <i>Alicyclobacillus</i>
<i>Alicyclobacillus</i> guaiacol +	4	<i>Alicyclobacillus acidoterrestris</i> (ATCC 49025), <i>Alicyclobacillus acidiphilus</i> (DSM 14558), <i>Alicyclobacillus hesperidum</i> (DSM 12766), <i>Alicyclobacillus herbarius</i> (DSM 13609)	+
<i>Alicyclobacillus</i> guaiacol -	1	<i>Alicyclobacillus acidocaldarius</i> (DSM 446)	-
Other species	16	<i>Acetobacter aceti</i> , <i>Aspergillus brasiliensis</i> , <i>Bacillus coagulans</i> , <i>Bacillus subtilis</i> , <i>Candida albicans</i> , <i>Candida krusei</i> , <i>Gluconobacter liquefaciens</i> , <i>Gluconobacter oxydans</i> , <i>Lactobacillus casei</i> , <i>Lactobacillus plantarum</i> , <i>Listeria monocytogenes</i> , <i>Micrococcus luteus</i> , <i>Saccharomyces cerevisiae</i> , <i>Salmonella typhimurium</i> , <i>Staphylococcus aureus</i> , <i>Zygosaccharomyces bailii</i>	-

## COMPARISON WITH IFU No. 12:2019

Tested on **243** sample comparisons according to MICA *Alicyclobacillus* and IFU No. 12: 2019 protocol.

	MICA	IFU 12	Guaiacol test positive
Presence of <i>Alicyclobacillus</i> Guaiacol +	detected	detected	+
Présence d' <i>Alicyclobacillus</i> Guaiacol -	not detected	detected	-
Absence of <i>Alicyclobacillus</i>	not detected	not detected	

**Specificity:** 96%  
**Sensitivity:** 100%  
**NPV:** 100%  
**PPV:** 95.5%

## SAMPLE RESULT: *Alicyclobacillus* Guaiacol + at 24h

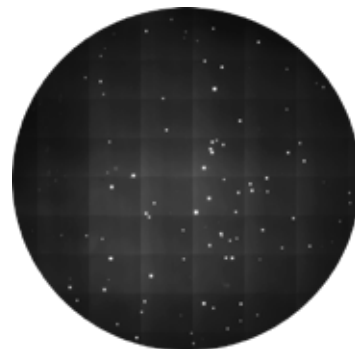
Photo of the membrane



Invisible to the naked eye

VS

Membrane scan with MICA Fluorescence



Visible with the MICA counter