MICROBS

CHECK FAST!

Your microbiology result in 15 minutes

# IAN

## Detects your microbiological contamination in just 15 minutes.

To boost productivity in your lab, Microbs launched IAN, **an Ultra Rapid Microbiological Method** allowing an accurate enumeration within minutes, not days!

By combining benefits of **solid phase cytometry** and **Artificial Intelligence**, Microbs overtaken the limits of current techniques.

Adjusted on more than **40 million events**, IAN® detects bacteria, yeasts and molds without the need for incubation or enrichment.

Used at line testing or in your laboratory, this **fully automated technology** will prevent and reduce risks of contamination in your products.

**Pharmaceutical**

**Cosmetics**

**Food & beverage**

IAN

# Ultra-rapid microbiological method

- ✓ Bacteria, Yeasts and Molds detection
- ✓ Preprogrammed cap
- ✓ Time to results in 15 min.
- ✓ Fully automated
- ✓ No need for interpretation

## Increase your productivity:

Optimize your process

Decrease your product losses

Reduce your inventory

SCAN-ME!

SCAN-ME!

SCAN-ME!

SCAN-ME!

**Increased efficiency**

**Check fast!**

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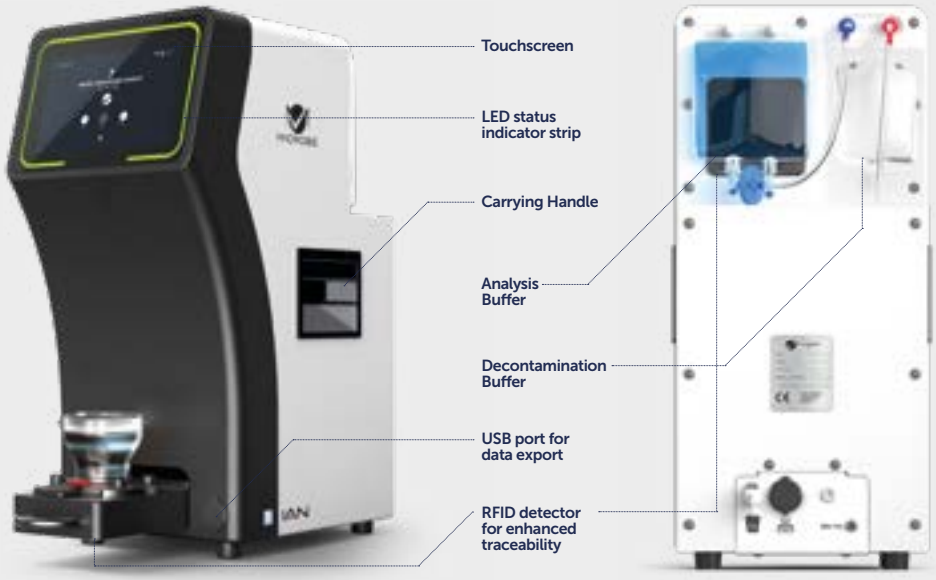
# Faster anywhere, for everyone.

## IAN, a breakthrough technology




**Mobile Laboratory**
Autonomous, it fits where you need it most

**Simplicity**
No expertise required

**Speed**
No enrichment needed

**Accuracy**
Detection range from 1 to ≈ 5 000 microorganisms/volume analyzed

**Liquid sample**
Sampling from 100µL to 200mL

**Traceability**
Full Data integrity
21 CFR 11 compliant

IAN **Dimensions**: Open drawer 24 x 46 x 52 cm. - 9,5'' x 18,1'' x 20,5''
**Weight**: 16kgs - 35.3 pounds - **Power supply**: 110-230V.
No IT required, can operate off network. Secured and proprietary system.

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# Pharmaceutical industry:

## Take control of all key steps in your production process

Microbs disrupts the field of bioburden and sterility testing.

To quickly measure microbial contamination in your product, Microbs launched IAN®, an innovative direct non growth counting method.

This unique association of Solid Phase Cytometry and Artificial Intelligence allows ultra rapid detection of aerobic and anaerobic microorganims in your sample in only 15 min.

## DEPARTMENTS

**MANUFACTURING**

**Optimize your process**
- Reduce lead time
- Improve production capacity

**QUALITY**

**Reduce Quality costs**
- No defects
- No recalls

**LABORATORY**

**Faster batch release**
- Rapidity
- Automation
- Traceability

**SUPPLY CHAIN**

**Reduce inventory**
- Save inventory costs
- Reduce safety stock & required storage area

**SAVE UP TO 14 DAYS ON QUARANTINE TIME**

## APPLICATIONS

**Bioburden test**
- Intermediate products
- Raw material
- WFI & Process water

**Sterility test**
- Sterility of filterable final products

**Environmental control**
- Swabbing surface / people
- Air monitoring

**Out of Specification Investigation**
- Ultrafast investigation of sources of contamination

Increased product safety

**Check fast!**

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# Microbiological testing is now fast and easy!

**Just insert your caps with your sample and let IAN do the rest**

TIME TO RESULT:
**15 mn.**

## What happens inside:

1. **FILTRATION:** Sample aspiration through microfluidics for microorganisms retention.
2. **LABELLING:** Sequential implementation of unique formulation of dyes.
3. **DETECTION:** Data are collected all through the process by multiple sensors.
4. **ANALYSIS:** over 100 criteria analyzed by the AI, trained on 40 million events.
5. **RESULTS:** Quantification of only viable microorganisms. Certificate of analysis.

# IAN, a fully automated solution

## Accurate & validated method

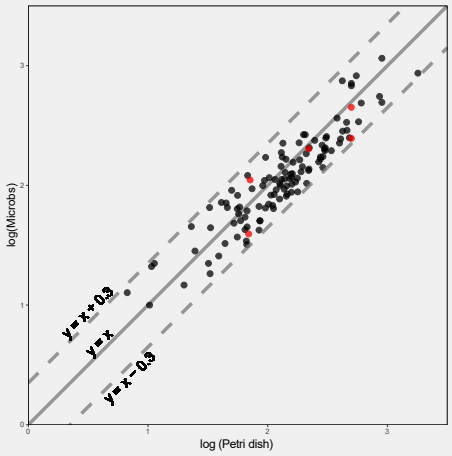


**Figure 1.** Correlation between Microbs TVC Cap and Compendial method. The straight-line y=x is shown as a marker of linearity. The red points correspond to Pharmacopoeial strains.

**165 Bacteria**
(including 65 genera)

*Such as Pseudomonas aeruginosa, Escherichia coli, Staphylococcus aureus, Bacillus subtilis, Clostridium sporogenes*

**37 Yeasts & Molds**
(including 20 genera)

*Such as Aspergillus niger, Candida albicans, Saccharomyces cerevisiae, Candida parapsilosis and Zygosaccharomyces bailii*

Compliant with European (EP.5.1.6) & US pharmacopeia (USP 1223) validation:

Bioburden: Accuracy, Linearity, LOQ, Specificity and Robustness.
Sterility test: LOD, Specificity and Robustness.

# Services

## Documentation & Execution

From feasibility testing to regulatory documentation, our dedicated professional services are the single point of contact to fit all your needs:

**Feasibility study**

**IQ & OQ**

**Method validation**
(Qualitative & Quantitative)

**Product validation**
(Qualitative & Quantitative)

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