

cosmetics / microbiological testing solution

MASTER
YOUR
MICROBIOLOGICAL
CONTROL

SPEED UP
THE RELEASE
OF YOUR
PRODUCTS

metis

Rapid microbiological analysis using flow cytometry

A QUICK AND FLEXIBLE SOLUTION FOR THE MICROBIOLOGICAL TESTING OF COSMETICS

DETECTION OF BACTERIA, YEASTS AND MOLDS
CONTROL OF RAW MATERIALS, PROCESS WATER, BULKS AND FINAL PRODUCTS

AN EFFICIENT TECHNOLOGY DEDICATED TO COSMETICS' SAFETY

- Time-to-result <48h
- Limit of detection <1 microorganism per gram of product tested
- Direct method detecting only viable cells
- Compatible with vegetable-based or organic matrices

SIMPLE PROTOCOLS SUITED TO ALL TYPES OF COSMETIC AND PERSONAL CARE PRODUCTS



Moisturing cream, anti-aging cream,
sunscreen, scrub...



Make-up : foundation, powder, eye-shadow,
mascara, khôl, lipstick...



Shampoo, conditioner, hair mask, shower gel,
tooth paste, dental bath...



Oil, micellar solution, make-up remover,
cleansing gel...

OPTIMISE YOUR CONTROL STRATEGY



SAVE TIME

Save up to 7 days compared with conventional
microbiological methods
Release your product faster



IMPROVE YOUR PROFITABILITY

Less stock, shorter time-to-market



FACILITATE THE MANAGEMENT OF YOUR LAB

Streamline technicians' workload
Save space in fridge and incubator



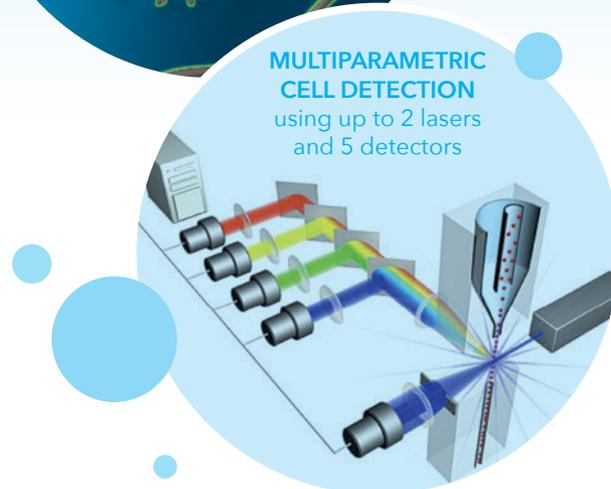
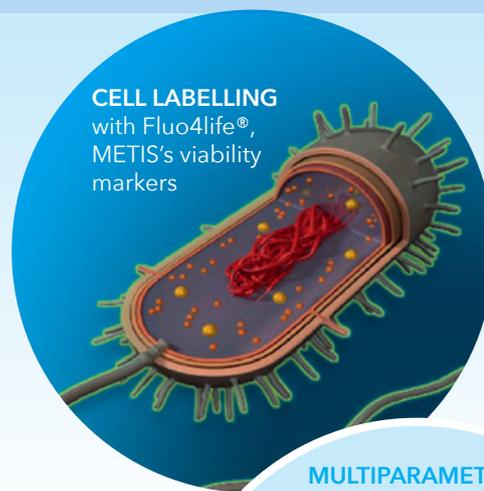
A COMBINED TECHNOLOGY ALLOWING THE DETECTION OF A SINGLE VIABLE CELL IN 1g OF PRODUCT

FLOW-CYTOMETRY

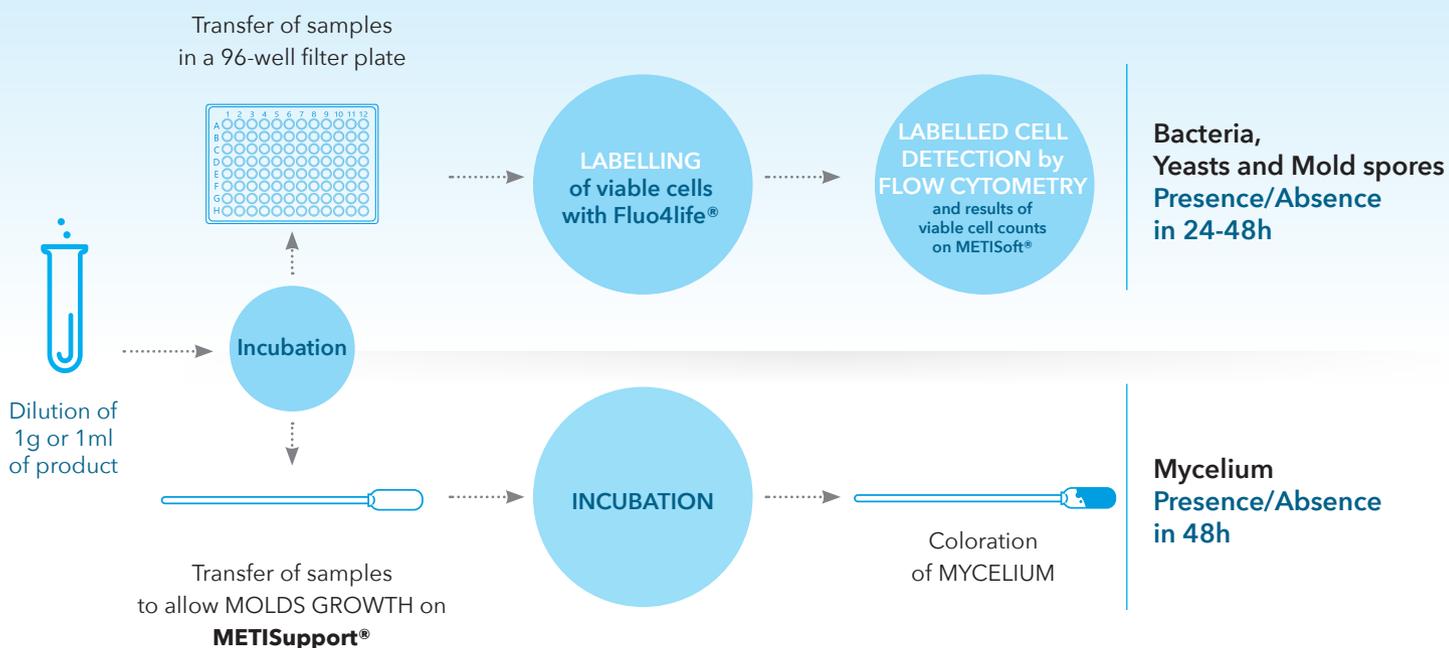
METIS has developed a unique cell labelling technology dedicated to the detection of all **viable bacteria, yeasts and mold spores**, including those growing in the presence of preservative or in processed-water. After a short incubation time of the sample, the cells are labelled with METIS's specific markers: **Fluo4life®**. The addition of **METISol blue®**, a counter-stainer, decreases non-specific signal and background noise. In the flow-cytometer, the microorganisms are aligned and viable labelled cells are counted using lasers and detectors. Results are presented directly via **METISoft®**, a clear interface that identifies positive and negative samples at a glance.

COLORATION

For the detection of **mycelium**, a simple and efficient technique has been developed by METIS to ensure the detection of a single mycelium in 1g of product. The samples are incubated in diluents with a swab. After 48 hours, the mycelium fixed on the **METISupport®** is colored with a specific dye, allowing the visual detection of molds at a glance.



AN EASY-TO-ACHIEVE WORKFLOW ALLOWING THE DETECTION OF ALL TYPES OF MICROORGANISMS



BENEFITS OF METIS TECHNOLOGY

COST EFFECTIVE / NO BATCH EFFECT

Use & pay only for the amount
of reagents requested for
your testing

FLEXIBLE

Tests in tubes or plates,
Semi- or fully automated
sample processing



Performed with a small footprint
multiparametric flow-cytometer

HIGH THROUGHPUT

Up to 96 tests at once in
less than 90'

MAINTENANCE

Light & easy to perform

EASY TO USE SOFTWARE METISoft®:

Positive/Negative results at a glance

TECHNICAL SUPPORT

A skilled team at your service
(research and application engineers)

On-site training

Detailed Standard Operating Protocols
for each application

Validation supports : IQ / OQ / PQ

Validation studies

*“Major cosmetic brands already
trust METIS to strengthen the
quality control of their products.”*

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