

A **new tempo** for your laboratory
to increase your company's **profitability.**

tempo  TM
THE 1ST AUTOMATED QUALITY INDICATOR SOLUTION

**The Professional Group Services
and
Pearl Design**

Food Technology Laboratory Engineering Service

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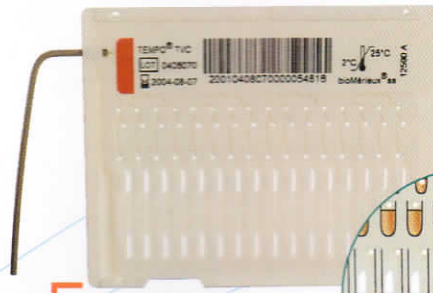


A simple idea, an innovative concept

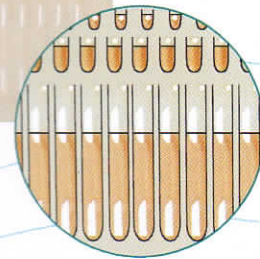
bioMérieux innovates by proposing specific culture media which allow rapid bacterial growth.

bioMérieux innovates by miniaturizing the Most Probable Number (MPN) method with 16 tubes in a single consumable, the TEMPO card.

Each medium contains a fluorescent indicator based on the formula of traditional culture media and bioMérieux's expertise in bacteriology.



The card, the heart of the TEMPO system, offers you the precision of the MPN method in 16 tubes without the usual tedious preparation.

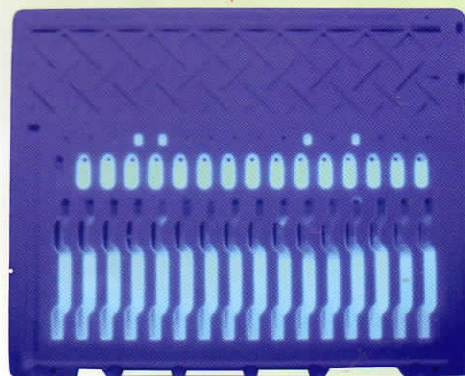


Each well corresponds to a dilution tube and the size of the well corresponds to 1 to 3 levels of dilution.

After distribution of the culture media-sample mixture in the wells of the card, the bacteria multiply during incubation and metabolize the culture media.



According to the number and size of the positive wells (fluorescent or non-fluorescent), the TEMPO system uses statistical methods to calculate the number of micro-organisms present in the initial sample.



The final result is expressed in CFU/g

Change the rhythm of the routine of your laboratory,

Traditional method



Preparation of media



Preparation of dilution tubes



Melting media in bottles
at 100°C

Tempering the bottle
of media at 45 °C

Identification of tubes and plates



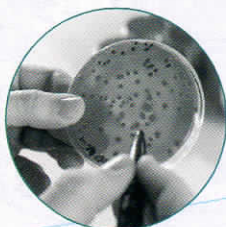
Dilution



Inoculation of plates



Pouring and drying of plates



Manual enumeration



Recording results



Data entry on a computer

adopt a new tempo !

0
Preparation
of culture media



TEMPO® method

Ready-to-use TEMPO media.

1
Preparation
of samples



Sample homogenization
using a TEMPO bag.

2
Preparation
of tests



TEMPO® Filler.

Automatic transfer of the sample-
media mixture in a card.

3
Incubation



Incubation 22-48 hrs

Minimum incubator space needed,
thanks to optimized TEMPO trays.

4
Reading



TEMPO® Reader.

Automatic reading of cards, interpretation
of results, and transmission to LIMS.

TEMPO easily integrates your process of quality indicator enumeration while reducing the number of operations for each step.



Quality Indicators: a necessity for controlling your food production process

The agri-food industry routinely **enumerates microbial flora**, which indicates the microbiological quality of the entire production process, from raw materials to finished products.

Used in combination with the detection of microbial pathogens, which is

necessary to ensure the safety of food products, **Quality Indicators are of major importance in establishing a HACCP approach and guarantee the commercial value of finished products**, from their exit from the plant to the end of their shelf life.

Quality Indicators include:

- total flora
- total and/or thermotolerant coliforms
- *Escherichia coli*
- *Staphylococcus aureus*
- *Enterobacteriaceae*
- yeasts and molds

Our objectives:

- optimize standard microbiological methods
- simplify routine analyses and eliminate steps with no added value
- accelerate time to results
- control analytical costs

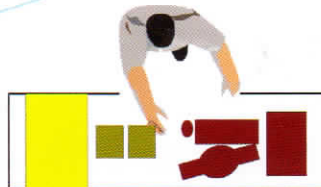
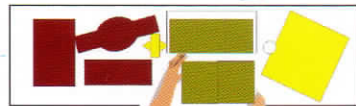
With our customers... for our customers!

As a partner with the agri-food industry since 1992 for the detection of pathogens with the VIDAS® system, **bioMérieux has entered into a close collaboration with its customers**

to optimize the methods of enumeration for Quality Indicators. From the beginning of the project, fifteen international experts in food microbiology have worked with us on a new concept.

During the ergonomic sessions organized on 3 continents, we adapted the solution so it will perfectly integrate your laboratory.

Preparation station with TEMPO® Filler.



Reading station with TEMPO® Reader.





tempo™
THE 1ST AUTOMATED QUALITY INDICATOR SOLUTION

International validations for official recognition

As with all bioMérieux industry microbiology solutions, TEMPO parameters have been validated or are undergoing validations by external organizations such as AOAC International and AFNOR.

The TEMPO® menu

TEMPO TVC:

Enumeration of aerobic mesophilic total flora in 40-48 hours.

TEMPO EB:

Enumeration of *Enterobacteriaceae* in 22-27 hours.

TEMPO CC:

Enumeration of total coliforms according to the FDA-BAM definition in 22-27 hours.

TEMPO EC:

Enumeration of *Escherichia coli* in 22-27 hours.

TEMPO STA:*

Enumeration of Staph in 24 hours.

TEMPO LAB:*

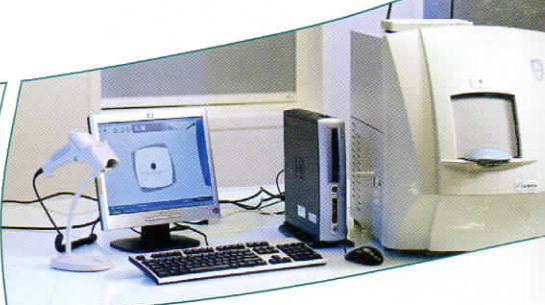
Enumeration of lactic acid bacteria in 40-48 hours.

* Availability: contact us.

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Preparation station with TEMPO® Filler.



Reading station with TEMPO® Reader.

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