



MMM Beverage

Partner Kft.

Who we are...

We are a group of enthusiastic engineers in food industry, experts qualified in the field of molecular biology. We have 7 years cooperation with Roche Diagnostics Hungary Ltd. in the field of development of Nucleic Acid Based Microbiological Method. We have developed, tested and introduced nucleic acid based Real-Time PCR systems for beverage industry. Our RT-PCR Workflow Systems rapidly detect spoilage microorganisms.

We serve nine satisfied Coca-Cola partners in Coca-Cola Hellenic, over Central and Eastern Europe and our mission and long term vision is to help every Coca-Cola plant all over the world to cut down their quarantine time.

Time requested for microbiological analysis, traditional plating vs. our rapid RT-PCR System:

Traditional Plating

Filterable (Nestea) = 7 days

2 days 5 days



Non-Filterable (Cappy Ice Fruit, Cappy) = 10 days

5 days 5 days

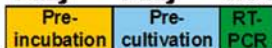


Real-Time PCR

Filterable, Non-filterable = 2.5 days

Analysed volume: 5 ml

1 day 1 day 0.5 day



Analysed volume: 200 ml

2 days 0.5 day



day 1 day 2 day 3 day 4 day 5 day 6 day 7 day 8 day 9 day 10

Time

*Quarantine time is cut down from 7-10 days to 2.5 days using the RT-PCR System
4.5-7.5 days saved*

Cut Quarantine Time

Rapid Molecular Microbiological Method

It is told about us...

"Coca-Cola Hellenic have established that, real time Polymerase Chain reaction technology (RT-PCR) is the most effective method currently available that can provide quick reproducible results with a high level of confidence and reliability across a broad range of aseptic beverages. The specifically developed beverage test kits are proven to be an effective tool for both Quality assurance and Root Cause analysis whilst being an essential element to ensure food safety. It is flexible and can be used to assess a wide spectrum of potential microbiological spoilage organisms accurately."

Tim Copeman
Group Quality Assurance Manager
CCB Management Services GmbH

Zoltan Syposs Ph.D.
Country Manufacturing Manager
Coca-Cola Hellenic Serbia&Montenegro

"We are proud to be the first to use this 21. century method for batch control at an industrial scale. The RT-PCR system reduced significantly – with 3-5 days – the quarantine time for aseptic products. Due to this our warehouse stock is lessened and our products get sooner to the customers."

László Fehér
National Quality Assurance Manager
Coca-Cola HBC Hungary

"Since we introduced the Real-Time PCR system in our lab in 2008, this high-tech method has proved that it really saves time and therefore saves money because of the rapid and accurate microbiological results. Using the high specific Real Time PCR kits the products can be released faster. This Real Time PCR system comes up to all the expectations from a rapid microbiology method."

Ana Apostol
Quality Assurance Manager
Coca-Cola HBC Romania Srl

"We are running RT-PCR since January 2010. Now we have a half year experience and we are satisfied with this device. Of course some small adjustments and clarifications were done but it is normal when you start with something new. This system has a big advantage - shortening of quarantine time of aseptic produced products. We observed that this is really great mainly during summer season when the products should be on the market very soon after production. RT-PCR allows us to offer bigger flexibility to our customers.

The service and support of **MMM Beverage Partner Kft.** is very good. Before we had RT-PCR in our lab we had possibility to be in **MMM Beverage Partner Kft.** in Hungary to learn how to work with RT-PCR and after installation on our side we have very good training of our microbiologists provided by MMM as well. They are also very flexible when we have some problem - quick help on phone, help with software updates etc.

Also I would like to emphasize deliveries of kits. Always the delivery was here on the announced day, deliveries and also kits are very well packed. This works from our point of view very well."

Lenka Plchotova
Quality Control Manager CZ
Coca-Cola HBC Czech republic



Microbiological LC RT-PCR
Workflow Systems
for beverage industry

Benefits of our Microbiological LC RT-PCR Workflow Systems for beverage industry

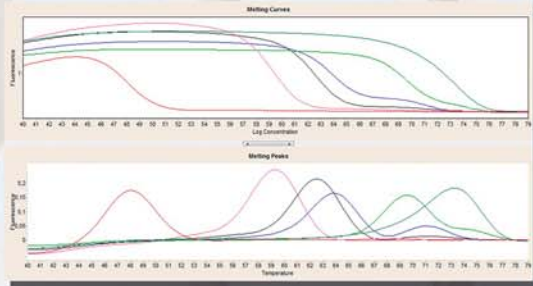
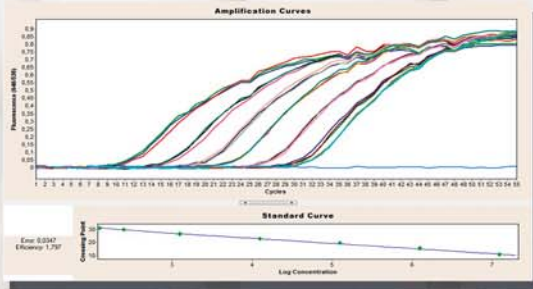
Our RT-PCR solution is a rapid, easy-to-use, molecular biology method. Our validated Microbiological Real Time-PCR Workflow System Kits offer:

- **Rapid detection of spoilage microorganisms**
- **Specific detection and identification of species of *Alicyclobacillus* genus**
- **Specific detection of yeasts and moulds**
- **Reliable and reproducible results within 2.5 days**
- **Sensitivity: detection limit of spoilage microorganisms in the sample is the theoretical 1 cfu**
- **Easy to learn and use**
- **Minimal human handling**
- **Automatic evaluation and interpretation of results (Analysis report generated automatically)**
- **Quantification of spoilage microorganisms**



Aseptically field pasteurised products:

- Nestea products
- Cappy Ice Fruit products, Cappy products fruit contents up to 100%



The satisfied, smiling customer is the meaning of our work

The consumer meets first class and microbiologically safe product



Our products and services...

Products

Catalogue Number	Kit name	Test / kit
386-52-78-727-37	FUN LC RT-PCR Workflow System Kit for Filterable Samples	180 (+6) bottles
386-52-78-727-637	FUN LC RT-PCR Workflow System Kit for Non-Filterable Samples	180 (+6) bottles
222-52-78-727-37	ACB LC RT-PCR Workflow System Kit for Filterable Samples	168 (+12) bottles
222-52-78-727-637	ACB LC RT-PCR Workflow System Kit for Non-Filterable Samples	168 (+12) bottles
386-52-78-727-37-R2	FUN LC RT-PCR Workflow System Kit for Filterable Samples	140 (+10) bottles
386-52-78-727-637-R2	FUN LC RT-PCR Workflow System Kit for Non-Filterable Samples	140 (+10) bottles
222-52-78-727-37-R2	ACB LC RT-PCR Workflow System Kit for Filterable Samples	140 (+10) bottles
222-52-78-727-637-R2	ACB LC RT-PCR Workflow System Kit for Non-Filterable Samples	140 (+10) bottles



FUN LC RT-PCR Workflow System Kit



ACB LC RT-PCR Workflow System Kit

Training

- Start up training: in MMM Beverage Partner Laboratory and on-site with the presence of MMM BP instructor
- Follow up training: in MMM Beverage Partner Laboratory and on-line

Application assistance

- On site
- Hot-line
- E-mail



Contact information...

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