

Press Release

foodproof[®] *Salmonella* plus *Cronobacter* Detection LyoKit

- Potsdam, 9th May 2019 -

A new multiplex real-time PCR test for simultaneous detection of *Salmonella* and *Cronobacter* in food samples

BIOTECON Diagnostics has launched a multiplex real-time PCR test for the simultaneous detection of *Salmonella* and *Cronobacter* in food and environmental samples. The test is designed for accurate quality testing for many matrices - with a focus on dairy products - of food manufactures, ingredients suppliers, analytical and governmental laboratories.

Salmonella spp. and *Cronobacter* spp. belong to the Enterobacteriaceae, a large family of Gram-negative bacteria. Both genera are recognized as food-borne pathogens that cause serious human illness. Several outbreaks of *Cronobacter* and *Salmonella* infections among infants have been linked to the consumption of contaminated powdered infant formula or dried milk products.

Since November 2005, the Regulation (EC) 2073/2005 by the European Commission requires the investigation of powdered infant formula for the pathogenic genera *Cronobacter* and *Salmonella*. Traditional microbiological detection methods for *Salmonella* and *Cronobacter* including enrichment, isolation on agar-plates and confirmatory tests usually need several days. Real-time PCR is a well-established alternative method to shorten the time from sample to result for the detection of both microorganisms.

Our new multiplex real-time PCR test for the detection of *Salmonella* and *Cronobacter* significantly reduces the costs and testing time by coupling two parameters in one single real-time PCR reaction.

The **foodproof** *Salmonella* plus *Cronobacter* Detection LyoKit fits to different existing open platform multi-channel real-time PCR instruments. It is easy-to-use, as DNA samples can simply be added to the lyophilized pellets. Moreover, our test prevents false-negative results by using an internal amplification control. Our new real-time PCR test is very sensitive and specific, comparable to our ISO 16140 validated **foodproof** *Enterobacteriaceae* plus *Cronobacter* and *Salmonella* Detection Kits, respectively.

We also provide several DNA extraction kits for different sample throughput rates, such as the **foodproof** StarPrep One Kit for manual extraction, the **foodproof** StarPrep One 8-Strip Kit for high-throughput manual extraction or the **foodproof** Magnetic Preparation Kit I for automated DNA-extraction in combination with the King Fisher Flex™ instrument.

You can find more information about our **foodproof** *Salmonella* plus *Cronobacter* Detection LyoKit on our webpage under: <https://www.bc-diagnostics.com/products/kits/real-time-pcr/foodborne-pathogens/foodproof-salmonella-plus-cronobacter-detection-lyokit/#detail>.

BIOTECON Diagnostics is located in Potsdam, Germany. Since 20 years the company is a competent partner for all molecular biological and microbiological challenges in the food and beverage industry. In the companies' focus are the development, production and marketing of high quality real-time PCR based rapid test methods including automation solutions.

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