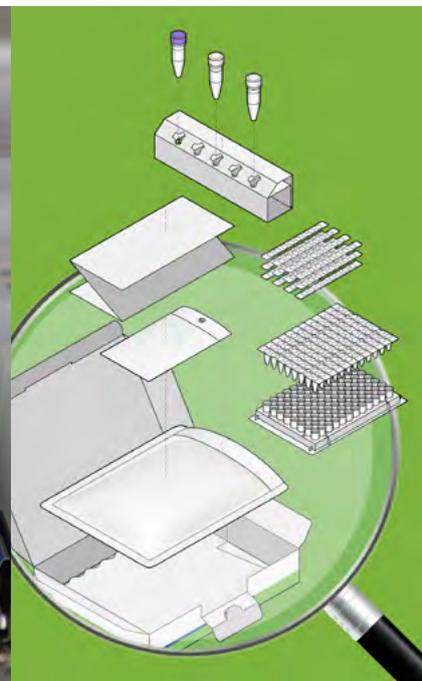


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**BIOTECON** Diagnostics



## NEWSLETTER

**For safer food – BIOTECON Diagnostics –  
simply builds up trust!**

## Welcome to our newsletter

Our regular newsletters are an easy way to keep up-to-date with all our new developments and interesting scientific research in the field of rapid food testing. With contributions from our in-house experts, our newsletters contain quarterly highlights, news pieces, and keep you informed of all our upcoming events and activities.

Topics:

- ▶ **The foodproof RoboPrep Fusion®:**  
A new and unique combined DNA Extraction and Liquid Handling Unit
- ▶ **The foodproof® *Listeria* Genus Detection LyoKit:**  
A new and unique Method for the Detection of all “sensu stricto” *Listeria* Species
- ▶ **At your Service:**  
Introducing the BIOTECON-figurator - our new revolutionary Product Finder
- ▶ **Meet the Experts:**  
Industry Meeting for Brewers
- ▶ **Upcoming Events**

#2 2017

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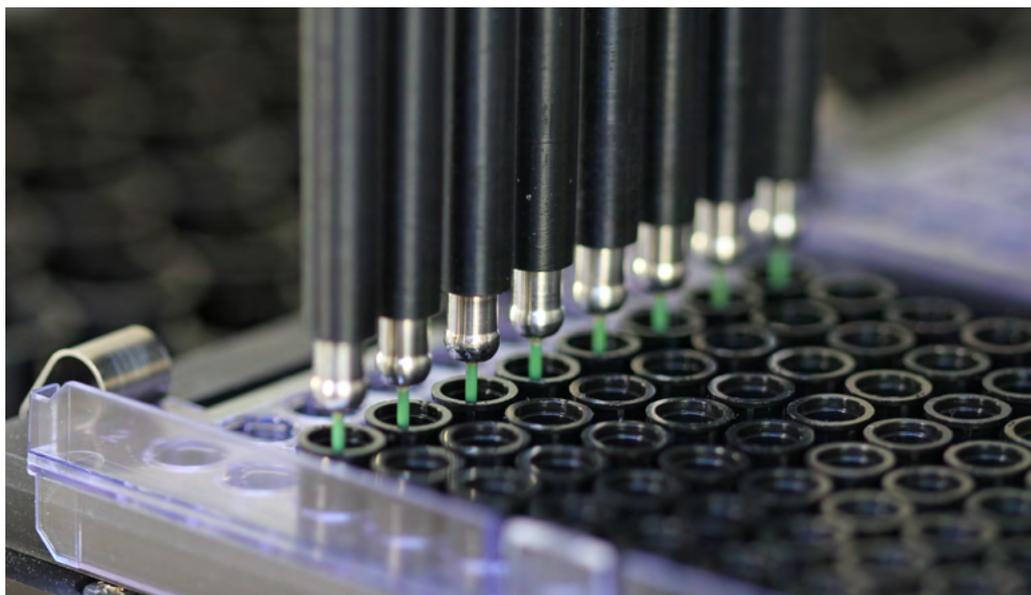
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**BIOTECON** Diagnostics

NEWSLETTER

## The foodproof RoboPrep Fusion®: A new and unique combined DNA Extraction and Liquid Handling Unit



Manual sample preparations including multiple pipetting steps in quality control laboratories are quite often tedious and time consuming, but - in most cases - ideally suited for automation on liquid handling workstations. Especially nucleic acid extraction procedures can be automated straight forward utilizing magnetic bead particles. The overall reproducibility, laboratory efficiency and productivity are key factors not only for molecular food diagnostic laboratories. In addition, automation means maximal reduction of potentially occurring manual errors. Therefore, the **foodproof** RoboPrep Fusion® is the perfect automation solution. It combines a precise liquid handling workstation with a modular attached, and highly efficient DNA/RNA extraction system: the KingFisher™ Flex. Via an 8 channel pipetting arm, the liquid handling unit prepares all samples for cell lysis by adding required lysis buffer and submits all required buffers for the automated extraction in the KingFisher™ unit. The extraction is done with the **foodproof**® Magnetic Preparation Kits using magnetic beads to extract highly purified DNA or RNA for direct use in real-time PCR applications, such as the **foodproof**® detection and quantification kits.

A second and separately operating gripper arm “feeds” all prepared microtiter plates containing samples and reagents directly into the KingFisher™ Flex unit for the extraction via an extended railway. After the extraction, the microtiter plate containing purified sample DNA is transferred back to the liquid handling deck for PCR-setup. For detection either a liquid-based PCR preparation or a lyophilized PCR kit can be used. Resulting PCR plates can be processed directly in a real-time PCR cycler. In

BIOTECON Diagnostics

**FUSION**

foodproof® RoboPrep Series

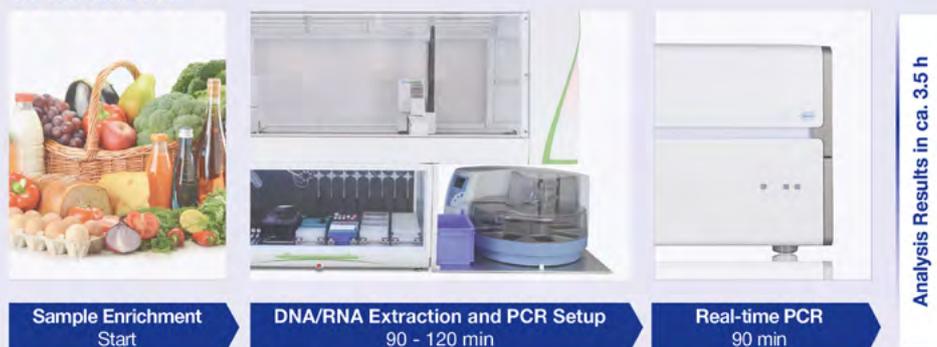
Approvals



**MICROVAL**®  
NEN



### Workflow



Watch the video of the automation workflow.

In addition, the gripper unloads the KingFisher™ unit and places all used microtiter plates in a park position on the liquid handling deck. All samples are tracked with an integrated barcode reader and the system control software creates an export/import list for the subsequent real-time PCR cyclers run.

### foodproof RoboPrep Fusion®: The Perfect Combination



BIOTECON Diagnostics has established two fully approved, validated protocols for the detection of *Salmonella* and *Listeria* species using the foodproof RoboPrep Fusion® system in combination with foodproof® Magnetic Preparation Kit I and II, respectively. Two additional protocols to run foodproof® Magnetic Preparation Kit III and IV are also available. We will continue to develop and validate new applications, helping to increase laboratory productivity further on.

For further information on the instrument visit [foodproof RoboPrep Fusion®](#) webpage or contact:

[Dr. Gerold Schwarz](#)

### Order Numbers

#### DEVICE

D 250 00 foodproof  
RoboPrep Fusion®

#### EXTRACTION KITS

##### Salmonella

(AOAC, MicroVal)

S 400 11 L foodproof®  
Magnetic Preparation Kit I

##### Listeria

(AOAC)

S 400 12 L foodproof®  
Magnetic Preparation Kit II

##### GMO, allergen, animal identification

S 400 13 L foodproof®  
Magnetic Preparation Kit III

##### Enterobacteriaceae, Cronobacter (MicroVal)

S 400 15 L foodproof®  
Magnetic Preparation Kit IV

AVAILABLE:  
Now



# The foodproof® *Listeria* Genus Detection LyoKit: A new and unique Method for the Detection of all “sensu stricto” *Listeria* Species



Microbiological methods for the detection of *Listeria* spp. with the pathogenic species *Listeria monocytogenes* including enrichment, isolation and confirmation usually take several days. Therefore, real-time PCR and other rapid methods are necessary to shorten the time from sample to result for the detection of this highly pathogenic organism.

BIOTECON Diagnostics has now developed a unique lyophilized real-time PCR assay for the detection of all *Listeria* genus “sensu stricto” species. We additionally provide several DNA extraction kits for all specific needs, like the foodproof® StarPrep Two Kit for manual extraction, the foodproof® StarPrep Two 8-Strip Kit for high-throughput manual extraction in deep-well plates or the foodproof® Magnetic Preparation Kit II for fully automated DNA extraction with the foodproof RoboPrep Fusion®.

To shorten the time for enrichment, BIOTECON Diagnostics has validated and introduced a rapid *Listeria* enrichment broth: foodproof® *Listeria* StarBroth.

By this combination of products, a safe detection of *Listeria* genus and *Listeria monocytogenes* is now possible within 24 hours in all kind of foods and raw materials. In addition, both foodproof® *Listeria* LyoKits have been validated with the ISO 11290 reference broth - 1/2 Fraser.

The validation included most relevant food categories like meat, poultry, milk and milk products, seafood, fruits and vegetables and environmental samples.

About *Listeria* “sensu stricto”: Depending on the degree of relationship to the highly pathogenic species *Listeria monocytogenes*, the genus *Listeria* can be sub-divided into *Listeria* sensu stricto species and *Listeria* sensu lato species. The 6 sensu stricto species, including *Listeria monocytogenes*, share common phenotypic characteristics, whereas the 11 *Listeria* sensu lato species represent three distinct monophyletic groups, which may warrant recognition as separate genera.

Therefore, the new foodproof® *Listeria* Genus Detection LyoKit can be used as a direct indicator of growth of *L. monocytogenes*.



## Highlights

- Detection of all „sensu stricto“ *Listeria* Genus species
- Fast enrichment for all food matrices available, max. 22 h
- Different DNA extraction protocols for all throughputs
- User-friendly design through lyophilized reagents

For more information about the new foodproof® *Listeria* Genus Detection LyoKit, please contact:

[Benjamin Junge](#)

AVAILABLE:  
Now

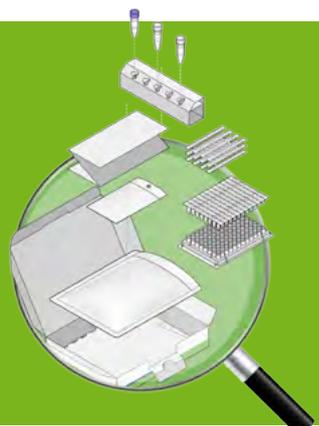
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**BIOTEC CON** Diagnostics

NEWSLETTER

## At your Service: Introducing the BIOTEC CON-figurator - our new revolutionary Product Finder



**WHAT ARE YOU LOOKING FOR?**  
PCR Kits | DNA/RNA Extraction Kits | Additional |  
Product Manuals | Quick Guides | Product Sheets

**GET IT HERE:**

**PRODUCT FINDER**

We would like to introduce our **new Product Finder, the BIOTEC CON-figurator**. This online tool helps to identify all products matching your workflow, just with a few clicks (see scheme on the right). You start by selecting your desired parameter, e.g. a foodborne pathogen, a spoilage organism, an allergen or another category. All available real-time PCR kits will be displayed depending on the probe format your cyclor is using. Additional components like color compensation sets are also shown when required. Next step is to choose your type of DNA/RNA extraction: do you need a fast approach or do you have a tricky matrix? Maybe you are doing automation? Make a selection and besides the correct extraction kit, all needed reagents including devices and enrichment media (*Listeria*) are presented. Furthermore, for every product all parameter-specific documents are ready for download: product sheets, quick reference procedures, product manuals and the link to the corresponding webpage.

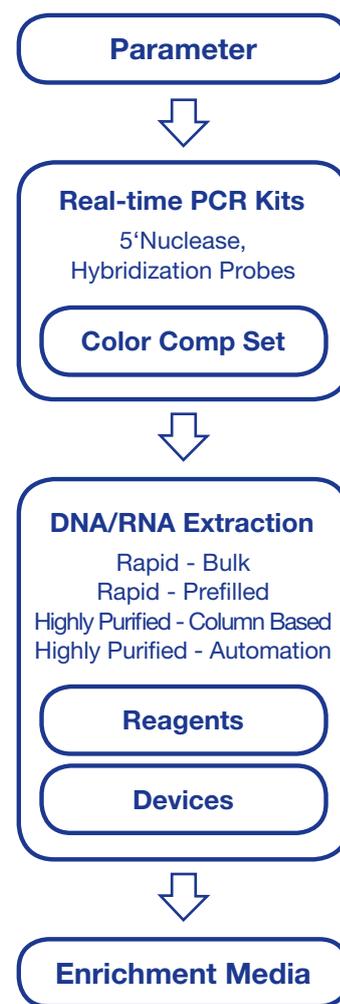
That means, no matter if

- ▶ you are looking for a specific product,
- ▶ you need the complete product chain that fits your lab routine,
- ▶ you have to download a certain product-related document or
- ▶ you just want to get an overview of all our products,

with our new BIOTEC CON-figurator you have **all you need in one place!**

TRY IT YOURSELF:

<http://product-finder.bc-diagnostics.com>



We want to become better to provide the best solutions for you. If you have questions or suggestions for improvements, please don't hesitate to contact:

**Thomas Bergmann**

**AVAILABLE:  
Online now**

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**BIOTECON** Diagnostics

**NEWSLETTER**

## Meet the Experts: Industry Meeting for Brewers

- Berlin & Potsdam, November 29<sup>th</sup> – December 1<sup>st</sup> 2017



We invite you for the industry meeting „Current topics and trends of diagnostic methods for brewers” in Berlin at VLB (members association of German brewers) and in Potsdam at BIOTECON Diagnostics. Attending this event will allow you to discuss with the experts speakers all the burning questions you have. This brewers meeting is supposed to improve expertise in brewery quality control.

During the first day our company experts in Potsdam will present state-of-the-art molecular diagnostic techniques, advantages of rapid test methods and discuss the demand and opportunities of the local participant sites.

And on the second day the event will take place in Berlin at VLB. The VLB was founded in Berlin in 1883 by German brewers and maltsters. For many generations VLB has been working in the field of research, development and training for the brewing industry. Today, round about 120 people work at the VLB in research, teaching, information, consulting and service. As a registered association VLB is an independent institute, which co-operates with Berlin University of Technology in the field of brewing science and has a very close network into the brewing and related industry.

Save your place! If you are interested please contact: [Constanze Klopffleisch](#)

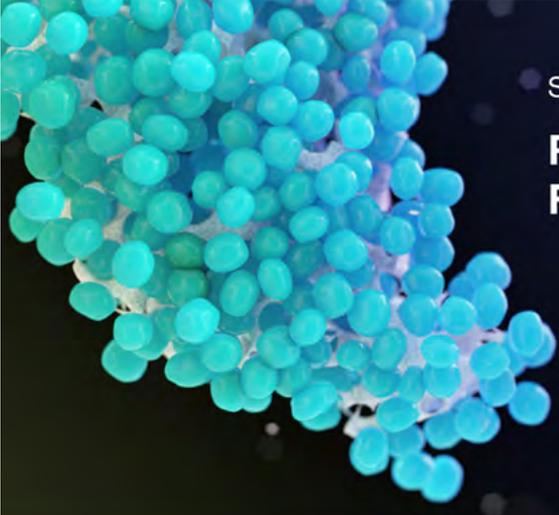
**Date:**  
**Nov - Dec 2017**



## Upcoming Events

Join us at the upcoming events to share insights and best practices with colleagues, connect and form new collaborations and discover new product launches.

Event	Date and Location	Contact
July 2017		
Brasil Brau 2017 <b>Booth A20</b>	July 26 <sup>th</sup> – 28 <sup>th</sup> 2017 in Sao Paulo, Brasil	Alberto Skinfill
September 2017		
AOAC 131st Annual Meeting and Exposition	September 24 <sup>th</sup> - 27 <sup>th</sup> 2017 in Atlanta, USA	Benjamin Junge
October 2017		
MBAA Annual Conference 2017	October 12 <sup>th</sup> – 14 <sup>th</sup> 2017 in Atlanta, USA	Juliane Kuklinski, Markus Fandke
March 2018		
Anuga Food Tec 2018	March 20 <sup>th</sup> – 23 <sup>rd</sup> 2018 in Cologne, Germany	Alois Schneiderbauer, Franz Thurmeier, Dr. Gerold Schwarz
April 2018		
analytica 2018 <b>Hall A3, Booth 409</b>	April 10 <sup>th</sup> – 13 <sup>th</sup> 2018 in Munich, Germany	Alois Schneiderbauer, Dr. Gido Murra, Dr. Gerold Schwarz



SEMINAR & WORKSHOPS

### Rapid Methods in Food Safety Analysis

September 21<sup>st</sup> - 22<sup>nd</sup>, Potsdam

[Learn more >](#)

### Impressum

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Benjamin Junge,  
Thomas Bergmann,  
Olaf Degen,  
Dr. Constanze Klopfleisch

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