



NEWS RELEASE

Bruker Announces Acquisition of Field-Portable Platform for Fast and Universal Immunoassay-Detection of Bacteria, Viruses and Toxins

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Ultra-Sensitive Electrochemical Biochip-based Instrument and Consumables to Expand Bruker's Bio-Detection Capabilities for Homeland Security and Microbiology Applications

LEIPZIG, Germany, Aug. 2, 2017 /PRNewswire/ -- Bruker today announced the closing of a technology platform and product line acquisition to further expand its range of bacterial, viral and toxin detection solutions for homeland security bio-detection and for selected microbiology applications. Financial details were not disclosed.

The acquired assets include intellectual property, a field-portable, electrochemical chip-based detection instrument and associated consumable kits for on-site, fast identification of selected bacteria, viruses and toxins.

Detection and identification of up to 6 bio-threats per assay chip occurs typically within 20 minutes, with excellent sensitivities and without any prior culturing steps for bacteria. The immunoassay kits, which Bruker now can offer for bio-detection and homeland security, include:

Biothreat Test: Bacillus anthracis, Yersinia pestis, Francisella tularensis, Brucella species, Burkholderia mallei/pseudomallei, Orthopox viruses (smallpox);

Toxin Test I: Botulinum Toxins A, B, F; Staphylococcal Enterotoxin B; Ricin;

Toxin Test II: Botulinum Toxin C, D, E; Staphylococcal Enterotoxin A; Abrin;

The acquired instrument platform, the **portable Bio-Detector integrated (pBDi)**, is ready for immediate commercial launch. Unlike other PCR-based field methods, the unique multiplex ELISA-based (enzyme-linked immunosorbent assay) detection with a novel electrochemical chip readout, allows rapid on-site identification of

various bio-threats, including toxins, with very high sensitivity.

Developed for ease of use by non-scientific personnel, the **pBDi** can even be operated while working in protective gear under field conditions. Fully portable and operating from internal batteries, the **pBDi** can be used in 'hot zones'.

Dr. Thomas Ellsner, Bio-Detection Manager at the Bruker Detection division, commented: "We are very excited to offer the **pBDi** as an easy-to-use and robust detection system that was specifically designed for field applications, and which dramatically decreases the time and effort to assess the seriousness of bio-threat incidents. Our new platform also allows the flexible development of new assays and consumables to address emerging threats."

Dr. Wolfgang Pusch, Executive Vice President of Microbiology & Diagnostics at Bruker Daltonics, added: "The new **pBDi** system leverages our recently acquired capabilities in monoclonal antibody production to enable new, fieldable immunoassay workflows for fast toxin, viral and bacterial detection, in the future also in clinical and food microbiology. The **pBDi** platform is a valuable expansion of our microbiology portfolio, consisting of the MALDI Biotyper for broad and fast microbial identification, the IR Biotyper for infection control workflows, and the Fungiplx and Carbaplex real-time PCR assays for rapid molecular testing."

About Bruker Corporation (NASDAQ: BRKR)

For more than 55 years, Bruker has enabled scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. Bruker's high-performance scientific instruments and high-value analytical and diagnostic solutions enable scientists to explore life and materials at molecular, cellular and microscopic levels. In close cooperation with our customers, Bruker is enabling innovation, productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy, nano-analysis and industrial applications, as well as in cell biology, preclinical imaging, clinical phenomics and proteomics research, clinical microbiology and molecular pathology research. For more information, please visit:

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