



Expert Opinion

Bruker Daltonics at the 18th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID)

● MALDI Biotyper

Bringing cutting edge microorganism identification technique to the public

19th-22nd April 2008, Barcelona, Spain

The MALDI Biotyper is a new method to reliably identify microorganisms using MALDI (matrix assisted laser desorption ionization) mass spectrometry, sophisticated protein peak pattern profiling algorithms and a dedicated database containing thousands of reference entries. In contrast to contemporary biochemical methods no initial data input is requested – every sample, including non-fermenters, is processed and analyzed the very same way. The system is very simple to use, robust, reliable, fast and cost effective.

Systems are up and working

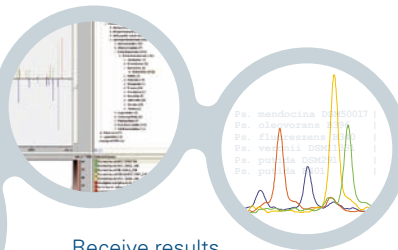
As of today several Biotyper systems are installed in microbiological routine labs worldwide and the customers' satisfaction guides the increasing demand for this outstanding technology. Especially in the highly competitive field of high throughput identification of microorganisms with clinical background, the MALDI Biotyper is already installed in major labs such as Labor Limbach, Labor Boogen or Laborzentrum Nordhorn with excellent success. However this solution is valuable for small scale applications as well. Two peer reviewed contributions to the recent ECCMID-conference clearly demonstrated the suitability for clinical routine usage of the MALDI Biotyper system in terms of feasibility, accuracy



Select colony



Initiate measurement



Receive results

and time-to-result. In addition, the theoretical replacement of contemporary biochemical methods could be shown. A further scientific contribution at this conference showed promising results of the MALDI Biotyper's performance in a preclinical study by successfully analyzing 293 bacterial isolates identified as *N. gonorrhoeae* in clinical bacteriology:

A mass spectrometry based approach for *Neisseria gonorrhoeae* species identification.

E. Ilina, S. Borovskaya, S. Sidorenko, A. Kubanova, T. Maier, M. Kostrzewa and V. Govorun; Research Institute for Physical-Chemical Medicine, Moscow, Russia, National Center of Antibiotics, Moscow, Russia, Central Research Institute of Dermatology and Venereology, Moscow, Russia, Bruker Daltonik GmbH, Leipzig, Germany.

Novel MALDI-TOF MS based differentiation of bacteria from clinical samples – alternative for biochemical test systems?

S. Schubert, N. Butterich, C. Heindl and K. Weinert; Max von Pettenkofer-

Institut für Hygiene and Medizinische Mikrobiologie, Munich, Germany

Rapid identification of clinical relevant bacterial isolates using the Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry in routine clinical laboratory

U. Eigner, A. Hendel, U. Wild, M. Holfelder and A.-M. Fahr; Limbach Laboratory Heidelberg, Heidelberg, Germany

To view scientific contributions please visit:
www.bdal.com/MALDIbiotyper

For further informations, including a MALDI Biotyper video CD, please contact:

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Not for use in diagnostic procedures.

References



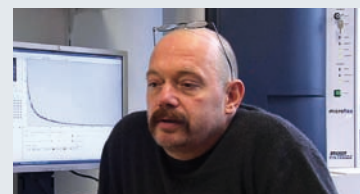
Dr. Holfelder
Labor Limbach, Heidelberg

„...for samples from patient with mucoviscidosis we have found that in comparison to molecular sequencing using the MALDI Biotyper we got results of same quality but faster and more cost-effective...“



Dr. Eigner
Labor Limbach, Heidelberg

„...Concerning time to result the MALDI Biotyper system is clearly superior to biochemical methods...“



Dr. Weller
Labor Boogen, Cologne

„...The MALDI Biotyper is very applicable for routine usage. It is easy to use, it is fast – perfect! ...“



Dr. Weil
Laborzentrum Nordhorn

„... a revolution in clinical microbiological analysis concerning precision, specificity and time-to-result...“

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