NEW workflow and improved formulation

When every minute counts

• MBT Sepsityper®
For Direct Pathogen Identification from Positive Blood Culture Bottles within 15-20 Minutes

Innovation with Integrity
Early identification and appropriate treatment of sepsis has tremendous benefits for patient outcomes and healthcare economy.

Using the Sepsityper identification workflow reduces the turnaround time provided by traditional positive blood culture identification workflows by up to 48 hours. Identification results can therefore be reported significantly more quickly to ICU consultants compared to traditional methods.

The MBT Sepsityper workflow

1. Urgent Blood Sample from Patient
2. Positive Blood Culture
3. Fast Identification of causative microorganism less than 10 minutes hands-on-time
4. Enables Optimisation of Antibiotic Therapy in Short Time

- **FAST Identification**: Less than 10 minutes hands-on-time, overall identification time 15-20 minutes after positive blood culture in same time to run Gram Stain
- **ACCURATE, SPECIFIC and EFFICIENT**: Making use of IVD MALDI Biotyper library with > 2600 species entries of bacteria and yeast
- **IMPROVES PATIENT CARE**: Early optimisation of antibiotic therapy in patients with sepsis
- **COST EFFECTIVE**: Cost savings for the hospital

Identification results up to 48 hours quicker than traditional methods
Clinical impact of fast workflow

The IVD MALDI Biotyper in combination with the MBT Sepsityper IVD Kit shortens the identification time after positive blood culture by up to 48 hours, by eliminating the time consuming step of culturing the microorganisms and fast identification by MALDI-TOF mass spectrometry.

In combination with antibiotic stewardship programs, this rapid identification allows a much faster optimisation of antibiotic therapy in patients with sepsis, compared to conventional workflows.

Early results, which physicians can act upon to manage bloodstream infections, enforce the fight against resistance, and improve patient outcomes.

Dr. Alexia Verroken, University Hospital Saint-Luc, Brussels, Belgium

“Reducing turn-around-times of positive blood cultures with MALDI-TOF MS ID accelerated prescription of targeted antimicrobial treatment thereby potentially improving the patients’ clinical outcome.”
Mr. Martin McGill, MSc, Lead specialist in Microbiology, University Hospital Crosshouse, Scotland

“Blood cultures are far more important to patients than other samples. In the case of a positive blood culture, time is freed up for the Sepsityper Kit, all staff are fully trained and provided protected time to run the Sepsityper test without interruptions. Fast identification helps our biomedical scientists focus on important samples and move only clinically significant samples to AST.”

Using the MBT Sepsityper IVD Kit eliminates the time consuming step of culturing the microorganisms before identification.

Easy sample preparation steps, which can be performed on batches of positive blood cultures, take only 10 minutes hands-on time - this small time investment may have an influence on patient outcome.
Benefits of using MBT Sepsityper

- Improving patient management
- Saving time to result, allowing
  - Earlier de-escalation and / or administration of targeted antimicrobial treatment
  - Reducing length of hospital stay and associated costs
- Early detection of blood culture contaminations
  - Avoids performing unnecessary antibiotic susceptibility testing
- Early detection of alert organisms
  - Improving hospital hygiene
- Early identification allows more efficient communication between microbiologists and treating physicians

Benefits for the entire hospital

Ms. Rushana A. Hussain, Section Manager Microbiology Dept., Royal Bolton Hospital Foundation Trust, England

“”The implementation of Sepsityper has resulted in a positive impact on the direct management and treatment for patients. Although it is difficult to calculate all the savings across the patient pathway, the data clearly show that there are significant financial benefits being achieved by the reduced length of hospitalisation and reduction in antibiotics.””

Bruker’s MBT Sepsityper solution is performed in conjunction with the Bruker MALDI Biotyper IVD Microbial Identification system saving both time and money when compared to traditional biochemical tests, whilst providing highly secure species level identifications.

Order information

Part-No. 1834338
MBT Sepsityper IVD Kit

The MBT Sepsityper IVD Kit contains all reagents and consumables required for isolation of 50 positive blood culture samples.

Part-No. 1834206
MBT Sepsityper IVD Module

The MBT Sepsityper IVD Module allows the definition of appropriate samples as blood culture samples in the MBT Compass IVD software. Samples defined as blood culture samples are processed in the Sepsityper software using optimized methods and are reported with adapted score thresholds.
Improving patient outcomes

Mr. Martin McGill, MSc, Lead specialist in Microbiology, University Hospital Crosshouse, Scotland

“Sepsityper stopped patient being incorrectly discharged.”
Female, 28, post Caesarian section, wound red and slightly inflamed, positive anaerobic blood cultures bottle, no organisms seen – Sepsityper identified Fusobacterium nucleatum.

Benefits of using Sepsityper:
By the time the organism grew on a culture plate, the patient was already treated for 48 hours with clindamycin and was well enough to be discharged with her newly born baby!

Dr. Alexia Verroken, University Hospital Saint-Luc, Brussels, Belgium

“Therapy change initiated with a 24-hour time gain!”
Pseudomonas aeruginosa was identified with Sepsityper within 2 hours after positive blood culture detection in an emergency unit patient that received cefuroxime (not covering Pseudomonas aeruginosa).

Benefits of using Sepsityper:
A treatment switch to ceftazidime could be initiated with a 24-hour time gain!

Please contact your local representative for availability in your country. Not for sale in the USA.

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