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EXS2600 Mass Spectrometry System

A Convenient and Efficient Tool for Microbial Labs

Microbiology

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EXS 2600 Mass Spectrometry System

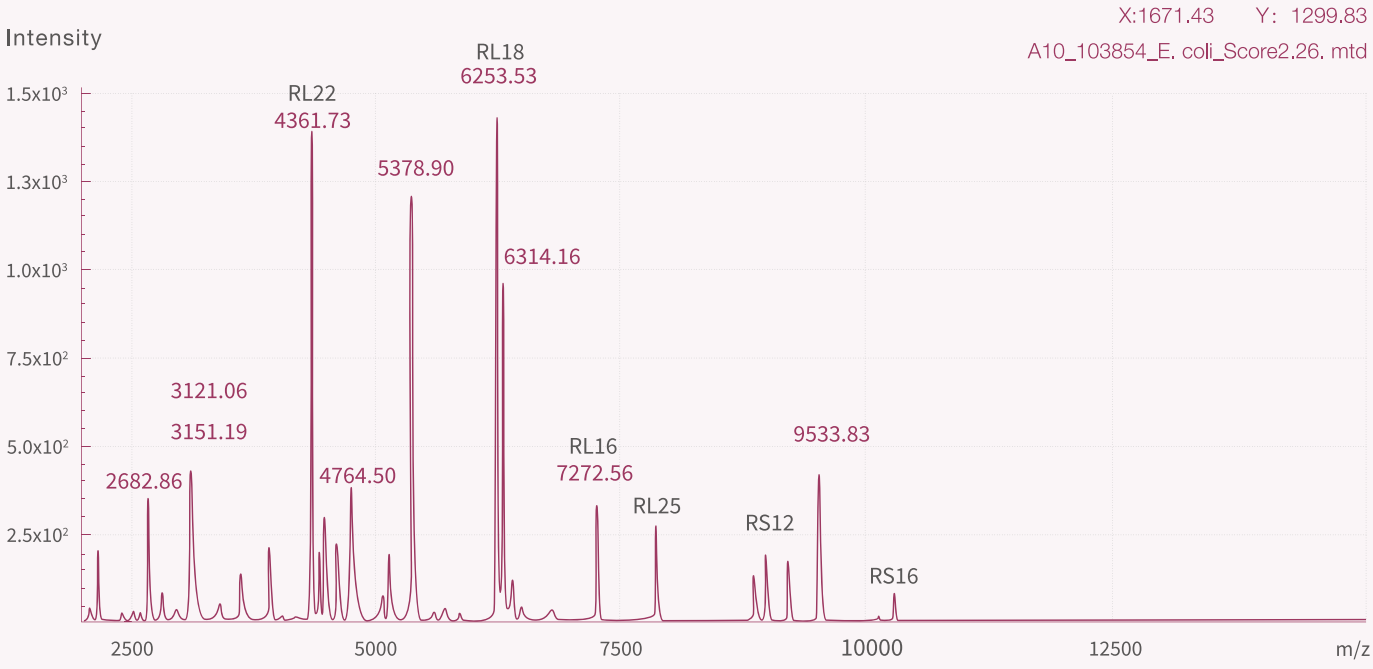
Based on matrix-assisted laser desorption/ionization time-of- flight mass spectrometry technology, EXS 2600 is used in diagnostic identification for microbes, include several kinds of bacteria，fungi，molds and etc.. Compared with traditional microbe diagnosis method, EXS 2600 mass spectrometry system could offer our end-user high-throughput screening, convenient operation and more sensitive and accurate identification result via advanced sample pretreatment kit technology, user-friendly software and comprehensive strains database.

How to identify a microorganism in EXS2600?

Convenient operation for several kinds of microbe, it could help doctor to rapidly get identification result for rational medicine use.

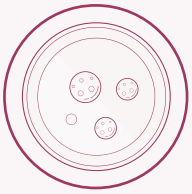
Peptide Mass Fingerprinting (PMF)

The peptide mass fingerprinting (PMF) is a high throughput protein identification technique， which could help get an accurate subject strain identification result via testing the peak list of to-be-test microbe and algorithmically comparing it with the reference in the database.



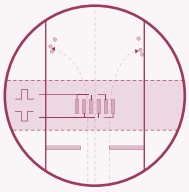
Fingerprinting Technology for Whole Bacterial Ribosomal

Highlight Feature



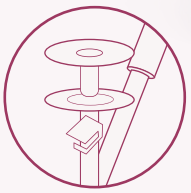
Accurate result

- Intuitively and synchronously display identification result and morphological reference.
- Clinical database including over 4,051 species, covering thousands of strains account for diversity greater accuracy.
- Kinds of specialty bacteria covering filamentous fungi, yeasts, noca bacteria, legionella and etc.
- Customize database to meet need of different microbial labs.



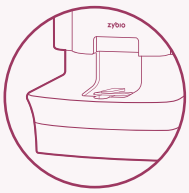
Reliable hardware performance

- Vacuum pump without oil is free of maintenance and less cost.
- Distinctive integrated circuit design to improve signal-to-noise ratio and reduce error rate.
- Advanced hyper-efficient ion propulsion patent technology to improve ion transmission capacity and increase the sensitivity and resolution of mass spectrometry systems.
- Flight tube temperature compensation technology to ensure the stability of the instrument.



Cost-effective Tool

- Acquisition and identification function realized in one application software.
- Target plate is reusable that help to save cost and could add sample at 96 spot at most at the same time.
- Strains identification applied in EXS2600 makes turn-around-time from about two days to minutes, which save more time for doctor to give medicine and even rescue critical patients.



Convenient operation

- One step to target-in for detection with reusable and traceable plate.
- Freely set control target location for monitoring process.
- Several sample pretreatment reagent selection for several microbes.

Highlight Feature

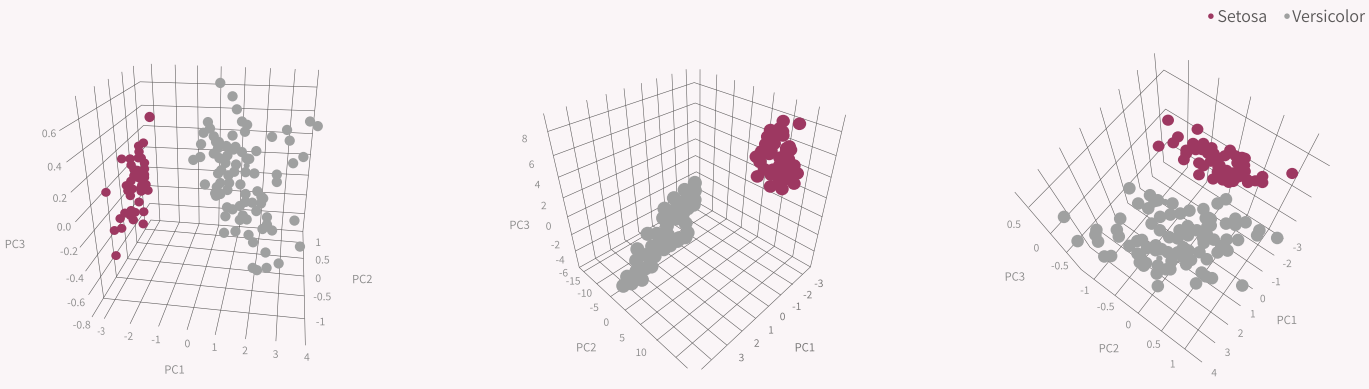
Advanced and distinctive microbe pretreatment reagent technology

- Less pretreatment procedure and more effectively break down dense mold cell walls
- Directly identify the microbe from blood culture positive bottle without subculture again.
- Ready-to-use matrix solution，good stability and room temperature storage.
- Any position on the target can be used as the calibration.

Name	Storage Temperature	Shelf Life	Open-vial Stability
Microbe Sample Pretreatment Kit	15-25°C	12 months	7 days
Mold Sample Pretreatment Kit	15-25°C	12 months	7 days
Blood Culture Positive Sample Pretreatment Kit	2-8°C	12 months	30 days
Sample Treatment Matrix Solution	15-25°C	12 months	7 days
Sample Pretreatment Solution	4-25°C	12 months	90 days
Microbiology Calibrator	-20±5°C	12 months	-20±5°C 30 days 2-8 °C 7 days

More Function for RUO : Cluster Analysis Software

- Combined with principal component analysis, EXS2600 could apply in clinical research such as antibiotic-resistant bacteria research, serotypes, strain traceability analysis and difficult-to-identified bacteria.

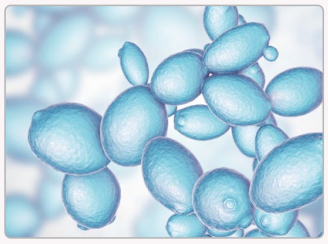
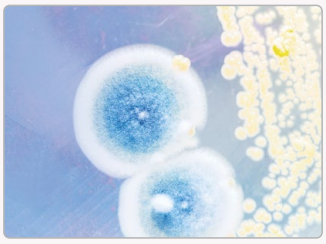


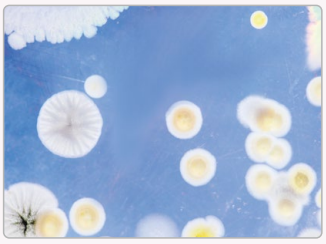
Principal Component Analysis

Principal Coordinates Analysis

t-distributed Stochastic Neighbor Embedding

A Broad Range of Application Fields

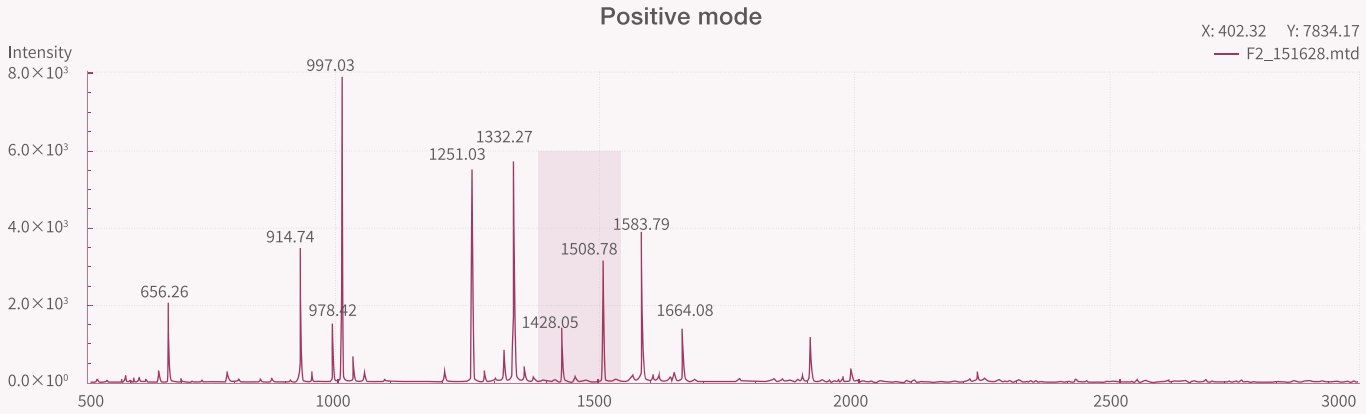



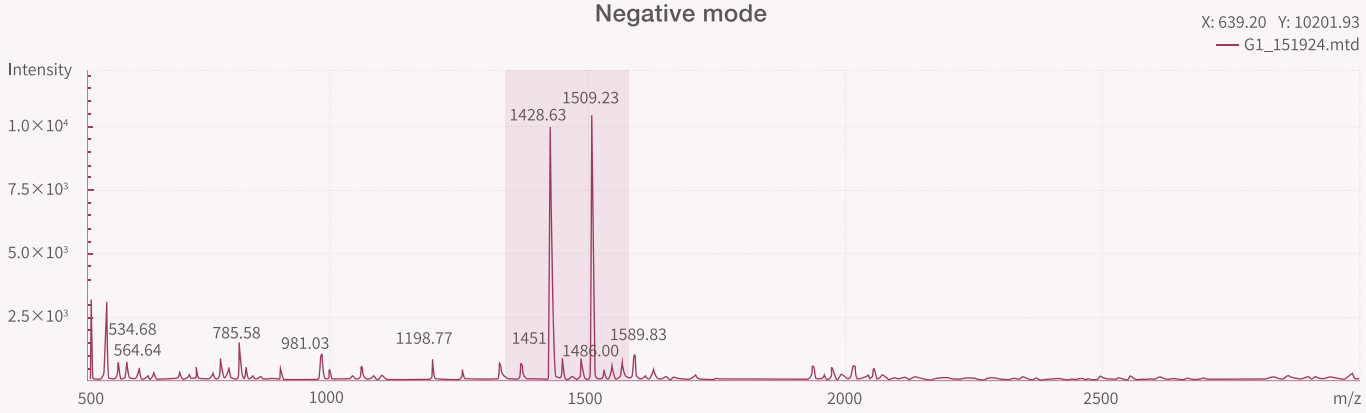


- Clinical inpatient, outpatient and emergency department for microbial identification.
- Hospital Infection Prevention and Control.
- Microorganism identification and monitor traceability in CDC.
- Microorganism detection and quality control in pharmaceutical or food factory.
- Microbiological testing and research in the fields of scientific research, industry, agriculture, environment, animal husbandry and veterinary medicine.
- Inspection and quarantine field.

Positive & Negative Ion Detector

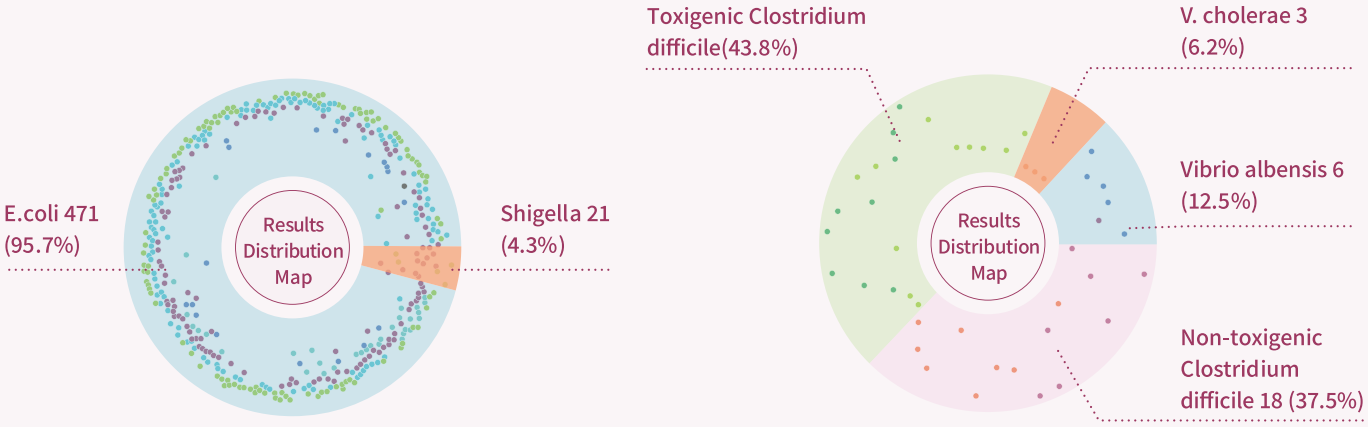
- Positive & negative ion mode could be applied in the phosphate protein detection among antibiotic-resistant bacteria and drug sensitivity analysis.





Artificial Intelligence Typing Software

- Combined with artificial intelligence algorithms, microbial intelligent type software show excellent performance for routine microbe and also could help to identify some difficult-to-identify bacteria, distinguishing E.coli and Shigella, and distinguishing between Listeria Monocytogenes and other nonpathogenic Listeria species.



Technical Specification

Work Principle	MALDI-TOF
M/Z Range	0 - 30,000 Da
Laser	Nitrogen Laser
	60 Hz Repetition rate
	400 million laser shot
Pump	Oil-free vaccum pump (340 l/s), Vacuum up to 10^-8 mbar
Pre-treatment Reagents	Microbe Sample Pretreatment Kit,Mold Sample Pretreatment Kit Blood Culture Positive Sample Pretreatment Kit,Sample Treatment Matrix Solution
Strains database	≥4,051 species, in local database
Target-in/out Time	≤50 s
Throughput	Test 96 samples in one plate within 7 min
Operation System	Windows 10 (64 bit) and above, support LIS
Power Supply	100-240 V, 50/60 Hz, 300 W
Weight	116.1 Kg
Dimension (mm)	490(W) *800(D) *1215(H)

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