

EXS3000 Mass Spectrometry System

A Smart Matrix Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry System



Microbiology

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EXS3000 Mass Spectrometry System

Based on matrix-assisted laser desorption/ionization time-offlight mass spectrometry technology,EXS3000 could be used in diagnostic identification of microorganisms,like several kinds of bacteria,fungi and so on. From easy operation,high-throughput rapid screening to comprehensive target characterization,without bacterial cultivation,this mass spectrometry system offer broad utility to meet all laboratory needs.

How to identify a microorganism in EXS3000?

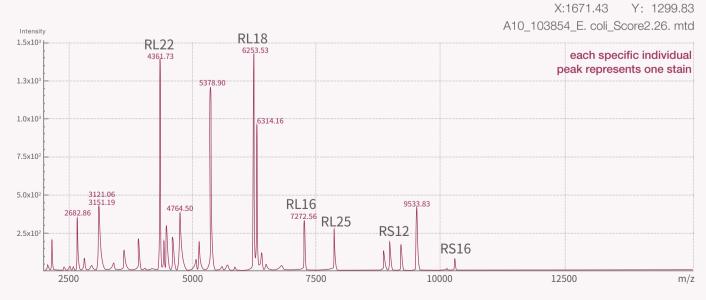
Without pure culture, EXS3000 brings end-users more rapid experience and more accurate microbe identification result.



Peptide Mass Fingerprinting (PMF)

The peptide mass fingerprinting (PMF) of the microbe could be algorithmically matched against a database of reference spectra so that could identify the subject strains.





Fingerprinting Technology for Whole Bacterial Ribosomal Protein

A Broad Range of Application Fields



- Clinical pathogenic microorganism rapid identification and infection control
- Microorganism identification and monitor traceability in CDC
- Microorganism detection and quality control in pharmaceutical factory and food factory
- Inspection and quarantine field
- Microbiological testing and research in the fields of scientific research, industry, agriculture, environment, animal husbandry and veterinary medicine
- Analysis of peptides and protein biomarkers
- Nucleic acid detection and prime analysis



Advanced and distinctive microbe pretreatment reagent formulation technology

- Less pretreatment procedure, better precision and more effectively break down dense mold cell walls, only required 2 min for mold pretreatment.
- Blood culture positive sample could directly identify in mass spectrometry system without pure culture. This could improve identification efficiency of blood stream infection bacteria and reduce report time
- Ready-to-use matrix solution, good stability and room temperature storage.



Name	Storage Temperature	Expiration	Open-vial Stability
Microbe Sample Pretreatment Kit for Mass Spectrometry System	15-25°C	12 months	7 days
Mold Sample Pretreatment Kit for Mass Spectrometry System	15-25°C	12 months	7 days
Blood Culture Positive Sample Pretreatment Kit for Mass Spectrometry System	2-8°C	12 months	30 days
Sample Processing Matrix Solution for Mass Spectrometry System	15-25°C	12 months	7 days

Technical Specification

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Mass Range	1500-30000 Da		
Mass Accuracy	Relative Indication Error≤500 ppm		
Sensitivity	S/N ratio \geq 100 (0.04 µg/mL, [Glu1]-human fibrin peptide B)		
	S/N ratio ≥100 (4 µg/mL, horse myoglobin)		
Mass Resolution	R≥500		
Repeatability	≤600 ppm		
Mass Stability	≤800 ppm		
Pre-treatment Reagents	Microbe Sample Pretreatment Kit, Mold Sample Pretreatment Kit,		
	Blood Culture Positive Sample Pretreatment Kit,Sample Processing Matrix Solution		
Strains database	Over 2000 species including 10,000 microbe in local database;		
	Over 4000 species including 20000 microbe in cloud database,like CDC database in US.		
Operation Environment	Temperature:10-30°C		
	Relative Humidity:(20-85)°C		
	Atmospheric Pressure:(70-106)Kpa		
Operation System	Windows 7(64 bit) and above, support LIS		
Laser	N2 UV laser, frequency 1-60 Hz		
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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