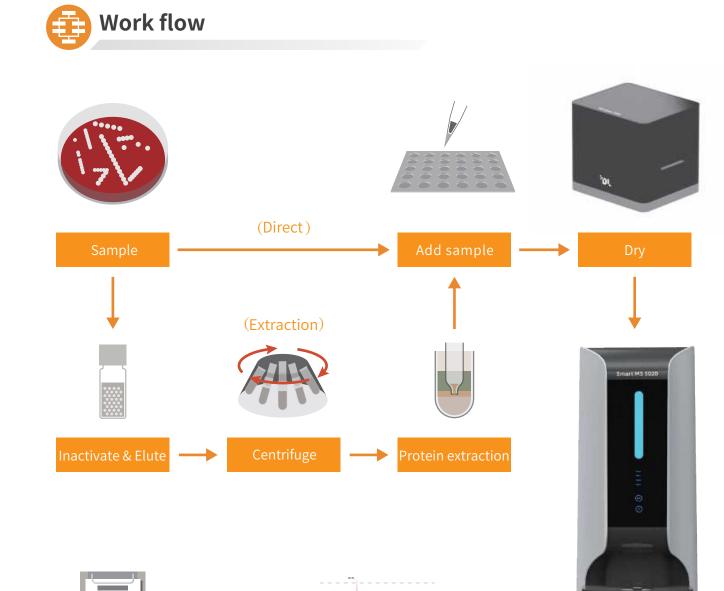
Smart MS 5020 Auto Biological Analysis Mass Spectrometry System





MALDI-TOF MS Wide Application Range & Rapid Detection

Accessories

Stainless target plate

High-densitycoating process to ensure that the surface of the target plate is flat and reusable; Partition quality control to reduce unnecessary losses during operation.





Matrix reagent

POL.

Sample pre-treatment reagent

Blood culture positive sample treatment reagent





* The above specification is subject to change without notice.



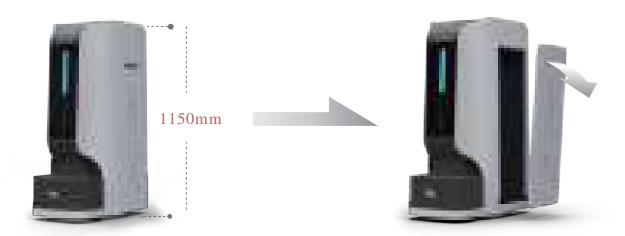


^{*}Drying Box(Optional): Used for storing and drying target plates. Capacity: 4 pieces of plates.



Optimized structure for easy operation and maintenance

- Compact design with height of 1150mm and save space.
- Integrated touch control panel to enhance user operation experience.
- Snap-in door on both sides for easy daily maintenance.



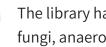


Core technology innovation with comprehensive hardware upgrade

- Highly-integrated FPGA+ARM modular circuit control system, stable and efficient.
- The patented target plate ensures high work efficiency.
- High-speed molecular pump and low-noise mechanical pump can complete the vacuum recovery within 30s.
- Intelligent vacuum management system maintains a high vacuum of 4×10^{-8} Pa and improves the ratio of signal-to-noise.
- Adopting a grid-free and cleaning-free ion source with wide-range ion focusing technology to improve resolution and stability;
- The front amplifier with high gain and low noise. Fast speed and high precision data acquiring system with the rate up to 1-2G hz.
- Solid state laser: 200 billion shots.



Modular library and AI neuron search



The library has PMF data of more than 5,000 species including mycobacterium, filamentous fungi, anaerobic bacteria, Legionella, Nocardia and common clinical pathogens, and supports cloud database searching to meet the needs of clinical institutes, CDC, and other industrial fields.



DL MASS Software System



Integration of data collection, spectrum analysis, and identification. 96 samples detection at a time;

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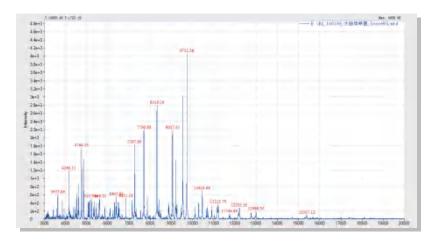
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- The morphological information of the sample is provided including microscopic cell morphology and culture medium colony morphology, assisting in the verification of the result.
- Detection of microbial resistance like cephalosporinases, carbapenemases etc.

Provide microbial self-built database function;



The system can intelligently identify and correct the ± 10 Da of the spectrum offset with synchro nous searching during the process. And the detection result will be obtained within 0.1s.



With cluster analysis and PCA analysis function, the system can achieve laboratory testing and scientific research such as microbial drug resistance analysis, strain traceability analysis, mixed bacteria analysis, etc.



