Autof ms1000

MALDI-TOF

Automated Mass Spectrometry Microbial Identification System

HARDY DIAGNOSTICS
A Culture of Service

Autobio
Autof
MS 1000

HARDY DIAGNOSTICS
A Culture of Service™

AUTOMATED MASS SPECTROMETRY MICROBIAL IDENTIFICATION SYSTEM

Hardy Diagnostics is proud to introduce the Autof ms1000[*]

Identification of microorganisms to the species level is the principle **objective** in microbiology.[1] For many years, such a feat has been accomplished through laborious biochemical assays. While advancements in nucleic acid sequencing technologies have enabled highly specific detection rates of microorganisms, these technologies are too **time-consuming** and **costly** to be commonplace.[2]

The **Autof ms1000** provides **automated**, **high-speed** and high-confidence identification and taxonomical classification of bacteria, yeasts, and fungi based on proteomic profiling. Numerous studies have demonstrated the **higher accuracy, faster time-to-result**, and lower cost provided by MALDI-TOF technology when compared to classical methods.[3,4,5]

Features:

- Faster time-to-result when compared to conventional methods and PCR [6]

- Accuracy similar to nucleic acid sequencing technologies [7]

- Cost effective [8]

- Robust, intuitive software, supporting 21 CFR part 11 compliance

- Installation Qualification/Operation Qualification/Performance Qualification support

- LIMS/LIS connectivity and support

- Database of approximately 5,000 species created with over 17,000 strains

- Can identify 96 samples in less than 20 minutes hands-on time

Cat. no. MS1000

1. *https://www.ncbi.nlm.nih.gov/books/NBK8406/* 2. *https://pubmed.ncbi.nlm.nih.gov/24822116/*

3. *https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5986882/* 4. *https://pubmed.ncbi.nlm.nih.gov/31116624/*

5. *https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5228263/* 6. *https://pubmed.ncbi.nlm.nih.gov/31116624/*

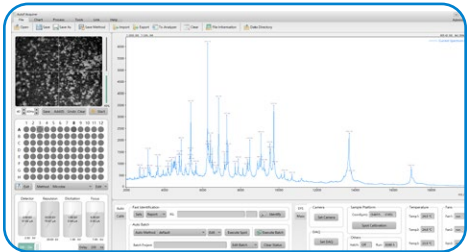7. *https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5986882/* 8. *https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5228263/*

INTUITIVE SOFTWARE

Easy-to-use software provides a friendly user experience. The Autof Acquirer has been designed to comply with the rigors and standards of a regulated working environment.

- Authentication
- User management
- Data archiving

Range	Description	Color
9.500 - 10.000	Reliable species	Green
9.000 - 9.499	Reliable species identification result	Green
6.000 - 8.999	Reliable genus identification result	Yellow
0.000 - 5.999	No reliable identification result	Red

Easy-to-read, color coded score annotations indicate the degree of confidence in each identification result.

Following the acquisition of spectral profiles, an identification report is automatically generated. A summary of sample names, descriptions, identification results, and scores will be displayed.
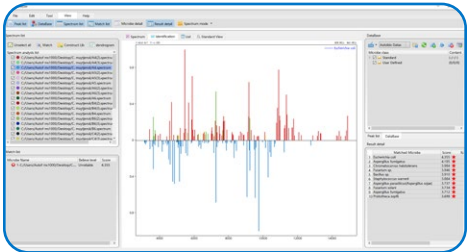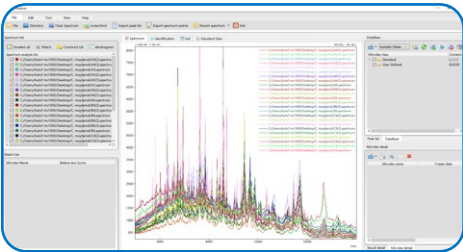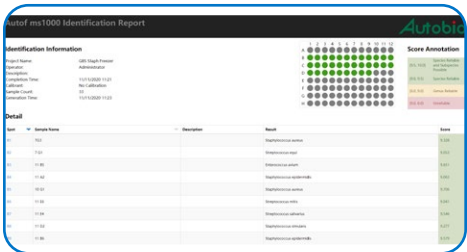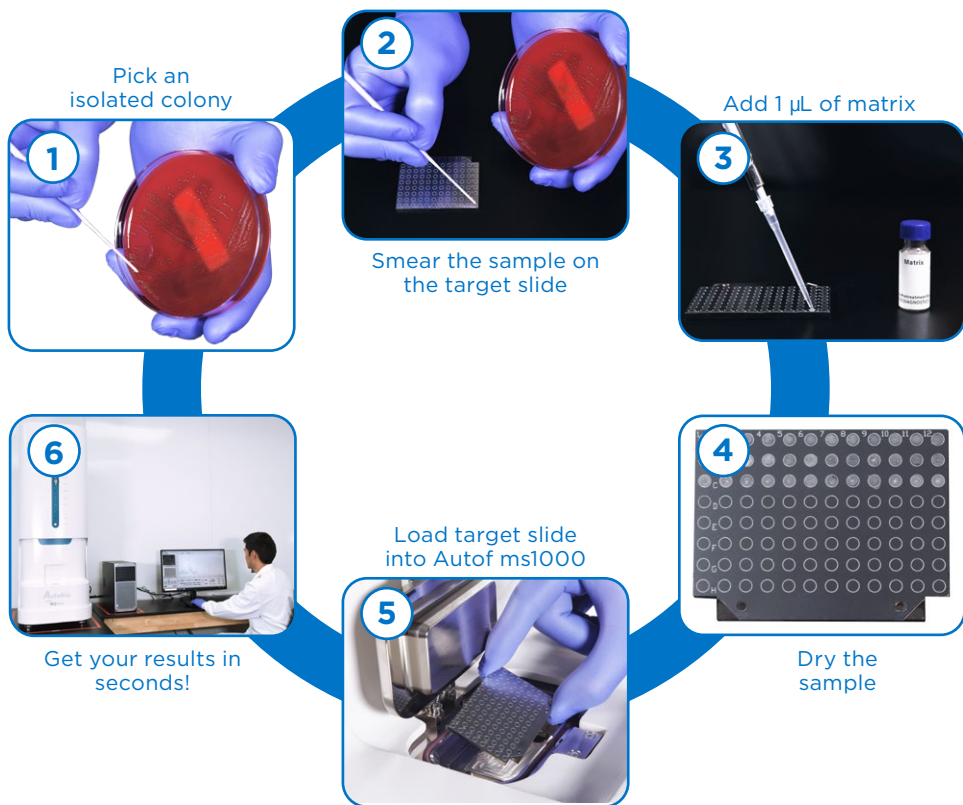

Laboratories that need to create their own local database can do so with the included companion software application, Autof Analyzer.

THE PROCESS

Pick an isolated colony

1

2

Smear the sample on the target slide

Add 1 µL of matrix

3

6

Load target slide into Autof ms1000

5

4

Get your results in seconds!

Dry the sample

- Unique rapid identification function displays a test result in 0.1 seconds for a single sample

- Average identification (acquisition and data analysis) time for 96 samples is 17.5 minutes

- Batch function available to edit and identify samples in a fully customizable format

- Access to LIMS/LIS system; reports release automatically

FREE ASSISTANCE WITH QUALIFICATION OF THE AUTOF MS1000

The qualification process-implementation and validation of the Autof ms1000 is supported by Installation Qualification (IQ) and Operational Qualification/Performance Qualification (OQ-PQ) documentation, which is provided at no charge.

IQ

OQ-PQ

Autof ms1000 software suite is 21 CFR part 11 compliant and offers complete workflow traceability.

IQ: Verification process that ensures the Autof ms1000 has been properly delivered and installed by way of an approved system and specification checklist.

OQ-PQ: A collection of test cases employed to verify that the Autof ms1000 and its subsystems perform as expected as defined by the functional requirements specifications.

ROBUST DATABASE

The Autof ms1000 has the **most expansive database** in the industry. Created with more than **17,000 strains**, many with more than **5 reference spectra**, averaging more than **10 strains per species**, the database of the Autof ms1000 provides **highly accurate results**.
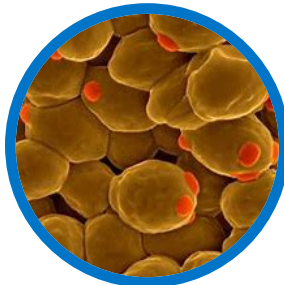
Local database includes a total of
5,041 Species, and **17,662 Strains**
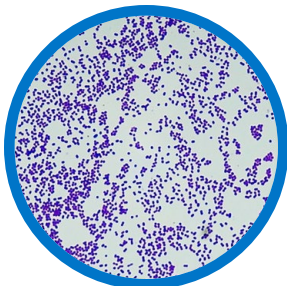
Gram +

**Gram -**

Yeast

Filamentous Fungi

Mycobacteria

As part of the partnership, Hardy Diagnostics and Autobio Diagnostics Co. LTD. are constantly augmenting the Autof ms1000 database. New strains and species are constantly being added, improving upon the reliability and accuracy of the system.
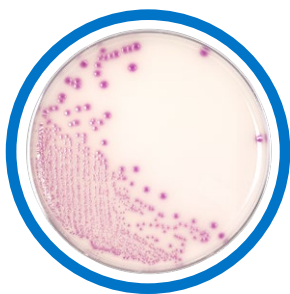
The **Autof ms1000** database contains a multitude of reference strains from:

- Varying geographic regions of the world
- Different specimen types
- Different culture media types
- Different growth conditions

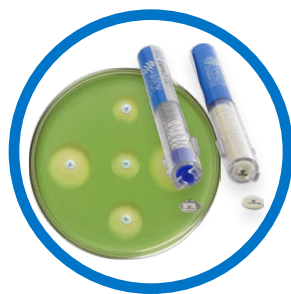Criteria that captures the natural phylogenetic diversity within a species.
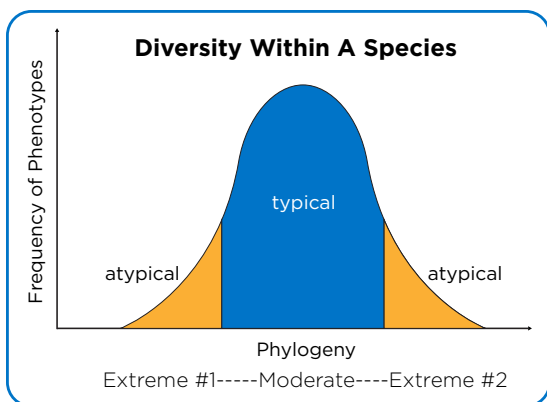
Hardy Diagnostics offers a comprehensive solution to your microbiology needs.

Culture

Identification

Antimicrobial Susceptibility Testing (AST)

HARDY DIAGNOSTICS

A Culture of Service™

MORE THAN 40 Years of Bringing You A Culture of Service

100% Employee Owned

ESTABLISHED 1980

MADE IN USA

Hardy Diagnostics donates 1% of net profits to charity.

bsi ISO 13485 Medical Devices Quality Management
FM 572526

Hardy Diagnostics has a Quality Management System that is certified to ISO 13485 and is a FDA licensed medical device manufacturer.

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AUTOF MS1000

SWITCH
POWER
ERROR
READY
GATE
IN
OUT
IN/OUT

Autobio
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MS 1000

For Research Use Only. Not for use in clinical diagnostic procedures.