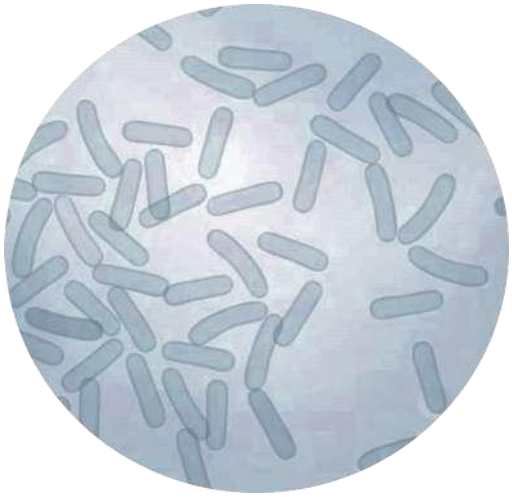
SCIENTIFIC ANALYSIS INSTRUMENTS

Micro ID

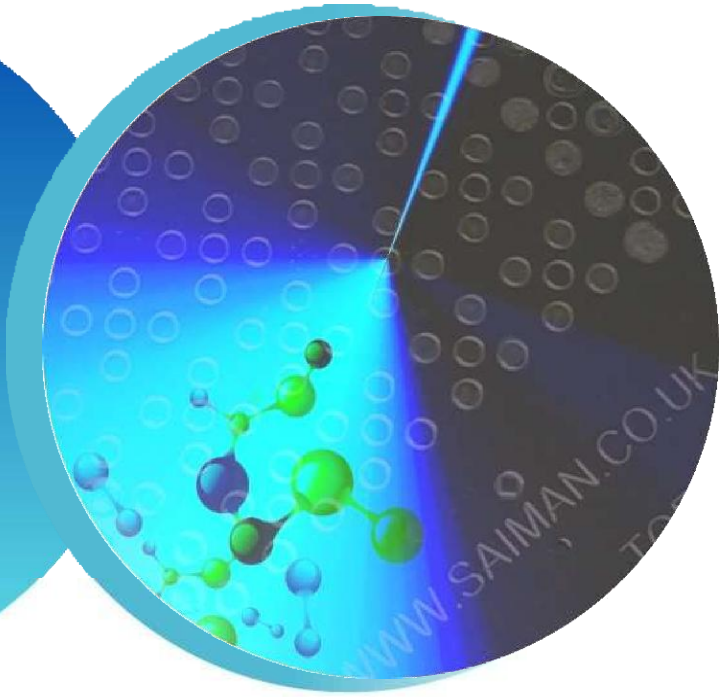
a microbiology milestone



Revolutionizing Microbial Diagnostics

Micro ID comprises the compact, benchtop SAI LaserTof LT2 Plus MALDI-ToF mass spectrometer combined with the powerful Bactoscreen -ID software, engineered to streamline microbial identification in clinical, research and industrial environments.

It delivers fast, cost effective and highly accurate identification of Gram-positive and Gram-negative bacteria, yeasts and moulds.



Rapid Identification

Identifies 96 samples in under 15 minutes, which is significantly faster than traditional methods.

Ease of Use

Requires minimal user experience with a simple workflow: spot bacteria, add matrix, and analyze.

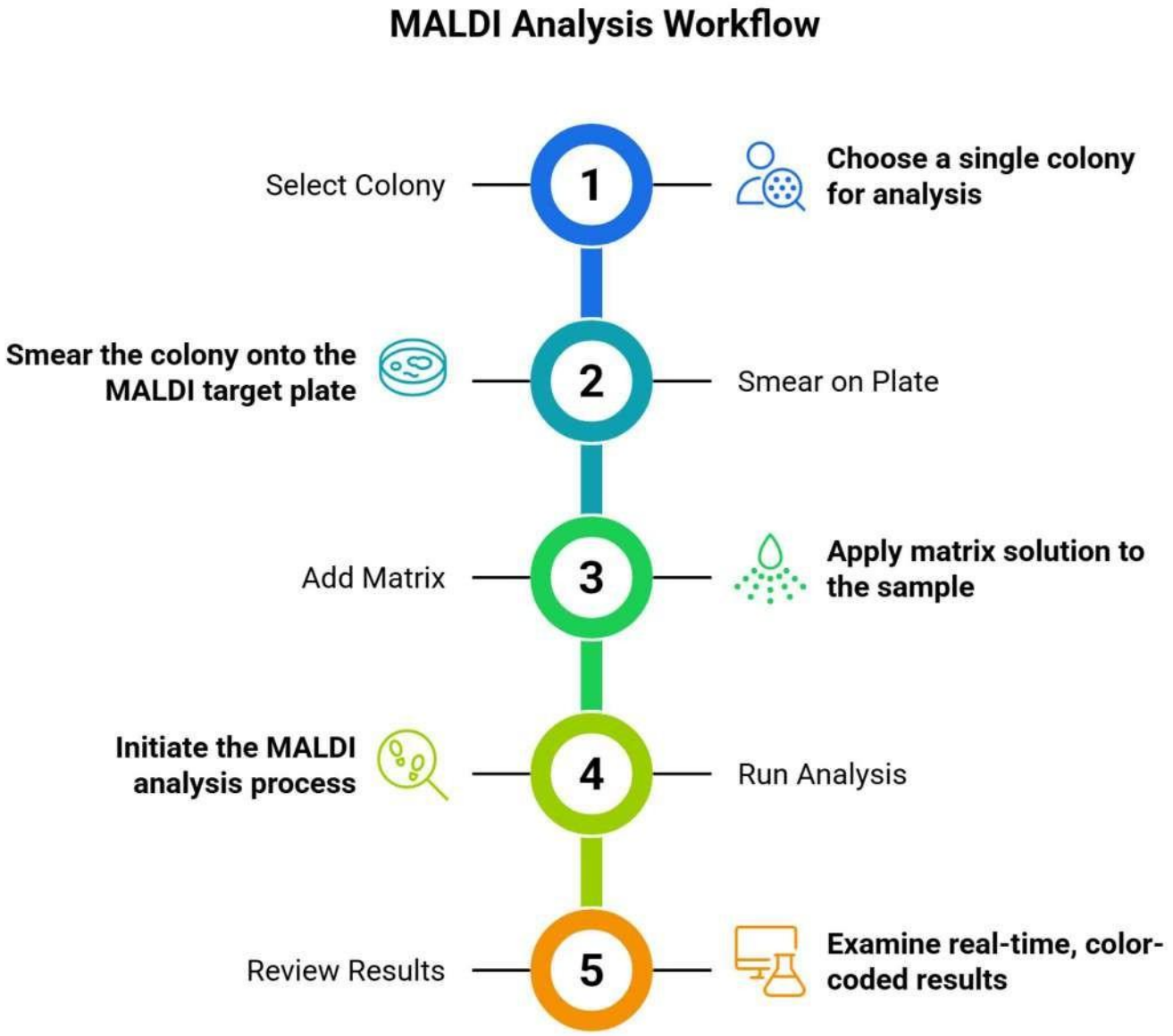
High Accuracy

Provides identification accuracy exceeding 98%, ensuring reliable results for various applications.

Cost-Effective

Offers low consumable costs compared to traditional identification methods, saving resources.

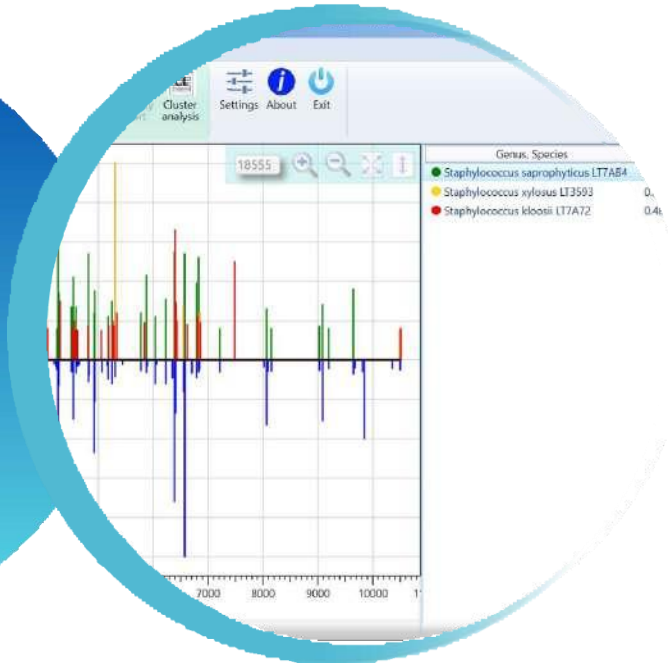
Simplified Workflow
User-Friendly, Efficient, and Scalable



Additional steps are required for yeast and mould identification.
No prior experience is needed to operate the system.

User Friendly Software

The BactoSCREEN-ID software is specifically created to quickly determine the taxonomic classification of a micro-organism being studied at the species level. This is achieved by comparing its mass spectrometry profile to the profiles of known strains of micro-organisms present in the corresponding database.



The results are presented in a clear manner that allows users to identify the species level along with its corresponding score value. Additionally, the color codes are assigned based on the score value to further enhance clarity.

Organism (Genius , Species)	Score Result
Staphylococcus Saprophyticus LT7AB4	0.91
Staphylococcus xylosus LT3593	0.57
Staphylococcus kloosii 7A72	0.48

Score Value Meaning

High Confidence Species

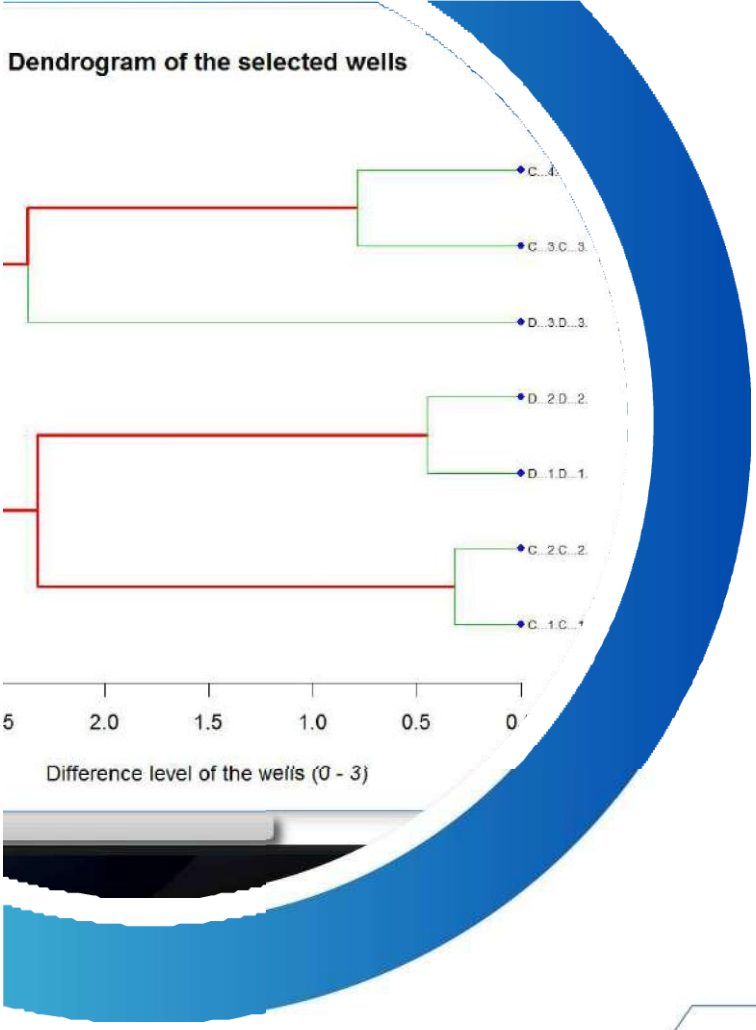
Range from 0.79 to 1.0 indicates high confidence identification for species. This is represented by the color green.

Range from 0.49 to 0.79 indicates high confidence genus identification. Species identification has low confidence and is represented by yellow.

High Confidence Genus

No Identification Possible

Range from 0 to 0.49 indicates that no identification is possible. This is represented by the color red.



With Bactoscreen, users can create their own database, conduct statistical analyses, generate dendrograms, and compare data.

Bactoscreen Capabilities

Database Creation
Enables users to build and manage their own databases.

Statistical Analyses
Facilitates in-depth statistical analysis of microbiological data.

Dendrogram Generation
Generates dendrograms for visualizing microbial relationships.

Data Comparison
Allows comparison of microbiological data sets effectively.

Rapid Blood Culture Workflow

Make a Critical Difference for Your Sepsis Patients

The Rapid Workflow is designed to meet the urgent need for fast and reliable identification from Positive Blood Cultures (PBC).

This solution empowers clinical microbiologists to deliver results that can significantly impact patient care, particularly in time-sensitive cases like sepsis.

Following identification, the system allows for spectral analysis to detect potential resistance markers—offering early alerts about antimicrobial resistance without requiring additional procedures.

Benefits of a Blood culture workflow

Rapid Identification

Quick species-level identification after PBC alert.

Faster Decisions

Physicians gain early, actionable results promptly.

Subculturing Bypass

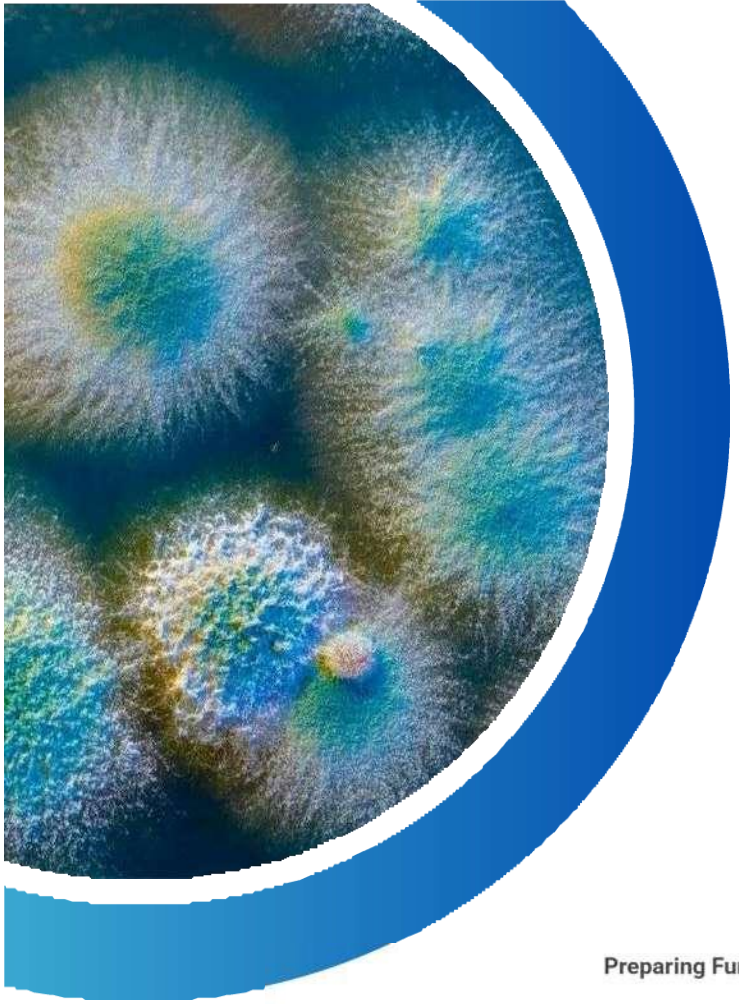
Eliminates subculturing, saving diagnostic process time.

Efficient Preparation

PBC samples prepared quickly and efficiently.

Resistance Detection

Early detection of resistance for timely intervention.



Accurate Identification of Moulds and Multicellular Fungi

Overcoming a Longstanding Challenge

Identifying filamentous fungi and moulds has traditionally been a complex task in microbiology. Even advanced MALDI-ToF systems face limitations as fungal growth conditions can significantly impact mass spectra, leading to inconsistent results. Through dedicated research in workflow development, we have successfully generated reproducible reference spectra, enabling reliable and consistent identification of these challenging organisms.

Preparing Fungi for Identification

LT2 Plus Specifications

Power in a Compact Design

Mass Resolution
Resolution greater than 2,500 m/Δm (FWHM).

Mass Range
Mass range extends up to 500,000 Da.

Accuracy
Accuracy is less than 100 ppm (internal).

Sensitivity
Sensitivity reaches below 1 fmol detection limit.

Laser
Pulsed UV laser operating at 337 nm.

Vacuum
Air-cooled TMP with oil-free diaphragm pump.

Stage
Motorized stage designed for 96-well plates.

Software
Software provides full MS control and database support.

Dimensions
Physical dimensions are 52×83×130 cm.

Power
Power consumption is less than 1 kVA.

CE
IVD

ACCESSORIES & CONSUMABLES

HCCA MALDI MATRIX KIT

High Purity Matrix enables easy and convenient preparation of MALDI matrix solution for MALDI-TOF- MS measurement of peptides and proteins.
Each Kit contains : 4 vials for 1000 samples.

MALDI AUTOMATIC SPOTTER

is designed for an automated fast and accurate sample preparation for microbial identification .The spotter can process up to two MALDI targets simultaneously, requiring only one second per sample spot. For higher throughput, the instrument has an automatic target drying function that provides a fast and efficient sample preparation.

BACTERIA STANDARD KIT

The Bacteria Standard consists of E. coli DH5 proteins that have been spiked with two additional proteins in the upper mass range, allowing for calibration over a mass range of 3 to 18 kDa.
Each Kit contains : 4 vials for 200 Calibrations

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CONTACT US

sales @ saiman.co.uk

+44 (0)161 850 1231

www.saiman.co.uk

Media House, Wright St.,
Manchester M16 9HB
United Kingdom.

Distributed in Europe by

ALBA SCIENTIFIC

T: +31 681 03 83 06
E: sales@albasci.com
W: www.albasci.com