



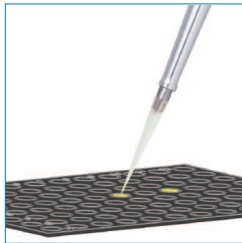
Isolated, pure colonies.

A very small amount of viable bacterial cell material is needed. Samples may be submitted on traditional media plates or prepared in an ethanol extraction in micro-centrifuge tubes.



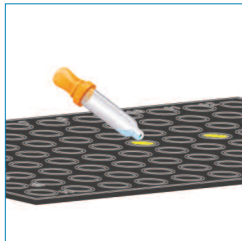
Sample Extraction

Cell material is transferred from the plate or processed for extraction from the ethanol suspension in the micro-centrifuge tubes.



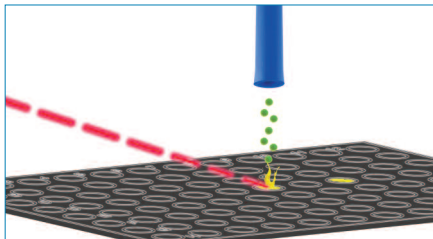
Sample Application

Sample is applied onto the target area of analysis plate.



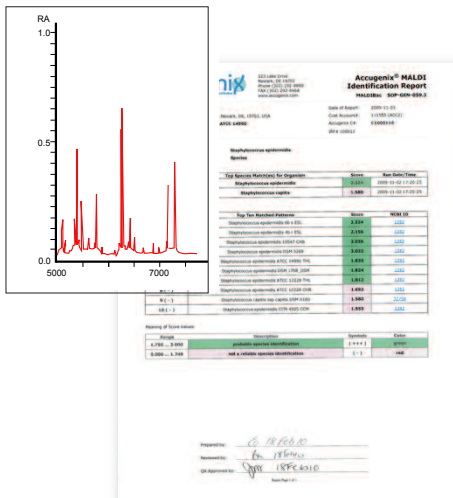
Matrix crystallization mix

Matrix is applied to each target area to be analyzed – key component is a UV-absorbing molecule that protects the proteins for intact analysis.



Data Acquisition

Multiple laser pulses bombard each sample individually. Proteins are desorbed, become ionized/charged and travel towards the detector with different velocities based upon their mass (smaller proteins travel faster than larger proteins). A spectra characteristic of the composition of intact protein molecules is produced.



Data Analysis

Generated protein peaks are compared to Accugenix's extensive database and the results are interpreted by our skilled staff of data analysts. A species, genus, family, and order identification is reported.

Predominantly, only a species-level identification report will be generated using this method in conjunction with our database.



Quality Assurance Review

Each identification report is reviewed by Quality Assurance.