The TriVersa NanoMate is the latest in chip-based electrospray ionization technology from Advion. It combines the benefits of liquid chromatography, mass spectrometry, chip-based infusion, fraction collection, and direct surface analysis into one integrated system. It allows analysts to obtain more information than with LC/MS alone.

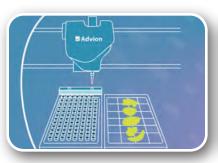
Product Note

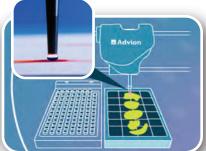
LESA™ - Liquid Extraction Surface Analysis More analytes and higher sensitivity

Developed in collaboration with Oak Ridge National Laboratory*, the liquid extraction surface analysis (LESA) capability of the TriVersa Nanomate® enables simple, direct ESI mass spectrometric analysis from a variety of surfaces. Benefits of the technique include:

- Speed & Simplicity no sample preparation
- More information long, stable ESI
- · Sensitivity lower detection limits than other surface analysis techniques

How It Works







The TriVersa NanoMate picks up a pipette tip from the tip rack, then aspirates extraction solvent from the reservoir.

The robot brings the extraction solvent into contact with the surface of the sample. The analyte is extracted from the surface.

The solvent is retracted into the pipette tip and is analyzed by chip-based infusion.

Analyze direct from any surface with extractable analytes such as:

- Thin tissue sections by LESA profiling
- TLC plates and other planar separation media
- Dried blood spots (DBS) on paper
- Analyze MALDI plates for complementary information by ESI

Obtain more information from more surfaces with LESA.

Kertesz, V.; Van Berkel, G.J. J Mass Spectrom. 2010 Mar; 45(3): 252-60

^{*} Fully automated liquid extraction-based surface sampling and ionization using a chip-based robotic nanoelectrospray platform