DART®HT: High-throughput DART Analysis

Automation Tools for Improving Workflow

Key Features and Benefits

DART HT is an innovative combination of the QuickStrip-96™ stainless steel mesh sample platform and the DART®-MS X-Z Transmission module. Sample preparation via deposition of 1-5 µL aliquots onto the QuickStrip-96:

- High-throughput DART thermal profile analysis

- 96 discrete sample wells can be analyzed in less than 15 minutes.

- Results with excellent precision using Apricot Designs iPipette*Pro®* (96-channel) automated pipettor.

- Easy to integrated into laboratory workflow.

- Intuitive software for rapid start up.

- Communication with MS for coordinated sample acquisition and MS error detection.

Rapid, High Precision analysis of 96 samples: Automated pipettor + DART HT

Rapid Sample Deposition

Samples are deposited using an automated fluid handling system. DART HT is compatible with the **Apricot Designs iPipette*Pro®* (96-channel)** and other fluid handling systems. Up to 96 samples can be accurately and precisely deposited onto the DART HT platform in a few seconds.

Rapid Analysis

The QuickStrip-96 enables "Transmission DART:" ionization gas flows through the stainless steel mesh containing samples. With the X-Z Transmission robot, **96 samples** can be analyzed **in less than 15 minutes.**

High Precision Data

High precision can be achieved using the DART HT. The data below shows the results for Codeine. Simultaneous deposition of 96-sample saves significant time vs. manual and multi-channel pipettors. **Coefficient of variation of < 2% can be achieved for 96 samples when using internal standards.** The plot of peak area ratio for Codeine-to-Codeine-d3 internal standard is shown below.

X-Z Transmission with QuickStrip-96 Precision Study

1.53% CV across 96 samples with Exactive Plus Orbitrap