

AutoDART™-96

Complete analysis of large numbers of samples from sources ranging in scale from LC fraction collection tubes, to solids, to aerosol sprayed on sampling tips. In a partnership with LEAP Technologies (Carrboro, NC, USA) we have integrated the DART source to the popular CTC autosampler providing you with the means to complete high throughput repetitive analysis off surfaces. As a means to enable these high throughput analysis we have developed DIP-it™ Samplers, custom tips which come in 96-well format holders for ready deployment on the robot deck. DIP-it Samplers are a fusion of plastic pipette tips with glass sampling rods, providing the optimum configuration for sample pick-up and ionization at temperatures ranging from ambient to 450 °C as is common with the surface desorption experiment.

Like most LC/MS autosamplers the AutoDART is designed to sample from solutions presented in a variety of different containers. As with other autosamplers the 96-well format provides the means for enabling high throughput sampling. DIP-it Samplers distributed in a 96-well plate format holder are placed on the robot deck along with an array of samples. The syringe normally installed in the injector body is exchanged with a mandrel designed to pickup sampler tips. Once the tip is on the mandrel its movement into the ionization zone, sample exposure time, and disposal are programmed so that you can repeat the experiment over and over.

Communication between your LC/MS and the CTC autosampler is enabled in many cases by your existing software.* Utilizing contact closure output of the robot enables collection of data into specific data files for each of your samples. The result is data flow to you and your associates match your current capability.

Configurations

AutoDART-96 includes:

- Limited configuration CTC Analytics HTC PAL
- Components for mounting DART® source, tip pick up, sampling, positioning for analysis, and removal to waste bin
- Walkabot-IT Mobile Workspace

AutoDART products are available for a limited number of LC/MS systems. Alignment may require repositioning your LC/MS to accommodate the Walkabot Workspace.

Customization of AutoDART with additional plate holders, and more advanced robotics is available to meet your specifications. Contact us for details.

*An updated list of LC/MS instruments compatible for use with AutoDART is available at www.ionsense.com

For a video of the AutoDART in action visit: www.ionsense.com and look for the AutoDART movie.



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Tip Acquisition



Sample Application



Desorption Ionization



Tip Removal



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