

GERSTEL MultiPurpose Sampler MPS and MAESTRO software

The right sample prep solution for every application

GERSTEL provides analysis laboratories with unique and comprehensive automated sample preparation solutions based on the MultiPurpose Sampler (MPS). Depending on the customer's needs, the MPS can be connected to a GC/MS or LC/MS system, combining automated sample prep with sample introduction. Alternatively, the MPS is available as a WorkStation to perform independent sample preparation for one or more GC/MS or LC/MS systems in the laboratory.



GERSTEL SPE Solution for GC

Easy sample prep with MAESTRO

MAESTRO software simplifies the task of generating sample prep methods using the Prep-Builder function. Sample prep steps are selected from a pull-down menu and added to the method, enabling sample prep by mouse-click with minimal effort.

The intelligent Scheduler in the MAESTRO software helps the analyst to optimize timing of both Sample Prep and analysis. Productivity and total run time for each batch of samples can be determined at a glance on the scheduler screen, you always know exactly when to have the next batch of samples ready thereby ensuring maximum throughput.

This convenience and productivity feature is a great help when planning the laboratory work-flow. Sample Prep steps are performed during the GC or LC run of the preceding sample for best possible productivity and highest system utilization.

The sample prep techniques performed by the MPS range from standard addition and derivatization through Twister (SBSE) and Dynamic Headspace (DHS) to Automated Solid Phase Extraction (SPE).

Contract laboratories operate in a highly competitive environment. Prices are under pressure while customer expectations are on the rise. Labs are expected to deliver results ever faster, providing ever higher quality in terms of reproducibility and reliability – and, of course, combined with ever lower limits of detection. The outlook is that the market will demand even more even faster. Therefore it is no surprise that many labs are looking to automating their sample preparation as much as possible.

As a logical consequence, a large number of laboratory automation products and robots will be on display at analytical chemistry related exhibitions, among them the upcoming PittCon 2008 (March 3 to 6, 2008) in New Orleans and the Analytica 2008 in Munich, Germany.

GERSTEL offers the discerning analyst novel technologies for extraction and analyte concentration as well as high-performance integrated systems for sample preparation and introduction including GC/MS or LC/MS. The following offers some detail:

GERSTEL SPE Solution for GC

The GERSTEL SPE Solution for GC has a lot to offer the user. It is based on the MultiPurpose Sampler (MPS), a modular autosampler and sample preparation robot that can be upgraded with a series of sampling and sample preparation options as the need arises. Among the available options are:

- Liquid introduction of up to 3456 samples
- Standard addition, derivatization, dilution and extraction
- Stirring, agitation, heating and cooling of samples
- Automated Weighing Option
- Dynamic Headspace (DHS), Headspace and SPME
- Stir Bar Sorptive Extraction (SBSE) using the GERSTEL Twister
- Thermal extraction of liquids in micro-vials (ATEX)
- Solid Phase Extraction (SPE)

The MPS is available as a completely integrated system with a GC/MSD from Agilent Technologies. The sampler can be operated independently through the GERSTEL MAESTRO software control or fully integrated with the ChemStation from Agilent Technologies. Just one method and one sequence table is required to operate the complete system from sample preparation through sample introduction to GC/MS analysis providing efficient operation with less risk of error.

GERSTEL SPE Solution for LC

The GERSTEL SPE Solution for LC enables automated sample preparation and sample introduction using a number of techniques:

- Liquid introduction of up to 3456 samples
- Standard addition, derivatization, dilution and extraction
- Stirring, agitation, heating and cooling of samples
- Automated Weighing Option
- SBSE and Twister Back Extraction (TBE)
- Membrane Assisted Solvent Extraction (MASE)
- Solid Phase Extraction (SPE)

The MPS is available as a completely integrated solution with an LC/MS system from Agilent Technologies. The sampler can be operated independently through the GERSTEL MAESTRO software control or



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