GERSTEL

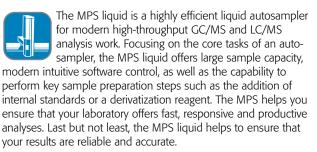
9

SELECTION OF THE PARTY OF THE P

MultiPurpose Sampler MPS liquid

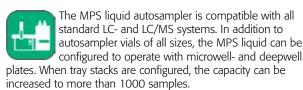


MPS liquid



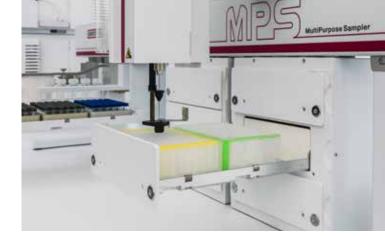
The MPS liquid is controlled by the proven GERSTEL MAESTRO Software in the simplest and most productive manner: By mouseclick. MAESTRO offers a maximum of flexibility without losing any of the simplicity of intuitive control: Priority samples can be added to the running sequence at any point; and sample preparation steps are added with the ease and flexibility of a truly intuitive graphical user interface using MAESTRO Preplets. The built-in context sensitive help functions make generating and setting up methods and sequences a breeze, you never have to wait for an answer or to search through manuals. Equally, out of range entries are not accepted, giving you the assurance that methods and sequence are fully operational.

MPS liquid for LC/MS analysis





MPS liquid with GC/MS system.





MPS liquid for GC (GC/MS) analysis



MPS liquid is compatible with all standard GC- and GC/MS systems and all standard GC inlets. For liquid sample introduction, the MPS liquid offers:

- Fast injection for discrimination free analyte introduction over a wide boiling range using split/splitless inlets
- Sandwich injectionLarge Volume Injection (LVI)
- Large volume injection (LVI)

LVI offers a really simple way to improve limits of detection based on increasing the sample volume introduced to the GC inlet. The MAESTRO Large Volume Calculator makes it easy to develop your LVI method even for very large sample volumes with difficult to use solvents.

Depending on the GC/MS system used, the autosampler can be controlled as part of the complete analysis system with one integrated method and one integrated sequence table, simply coupled with the GC/MS sequence table or totally independent of the GC/MS system.

Simple and efficient software control

MAESTRO makes the operation of individual modules highly efficient and almost effortless since they can be integrated as part of the overall system with only one method and one sequence table for the complete analysis system using leading Chromatography Data Systems (CDS) from Agilent Technologies. GERSTEL modules and systems can also be operated coupled with the sequence table for simple setup with other leading manufacturer's CDS, or completely independent of the analysis system in standalone operation for added flexibility. MAESTRO provides you maximum productivity and reliability in your daily laboratory operations – all day, every day - and throughout the night.

16	08405	etti	1	X a		C UI har Apart 1	in in	
	Use Pres	Head 		(manual)				
	314	Writed	Inter	Try	ligen-	Seich Sate	Impole	loop.
20	1000	No. of Concession, Name	1.5	Tel-2/1912/011	10,861	1000		
3	12	Name and		3xx12/1542-CVM	16,341	1001		
3	3	the strength of the strength of the		Res 2,01942-CM	100,001	3992		
		04		\$40-247842-0W	90.341	1003		
5	3	- Ger		Rep 24754/2004	10,341	3804		
۶.	4	Falle		Auto 2,v159(34094	10,241	9005		
7	12	Local		AND CATEGORY	15,961	1008		
8	14.77	Part 1 1 1	- 29	Recipiting one	10,361	2000		
9.		method 2 with	2.0	Res 2/19(24)W	10,891	3000		
救.	10	implied 2 with	5.4	18822/1912-09	10,340	3990		
11	14	Public 1 Abi	2.0	4x81x1943x014	10,311	1002		
및	141	Webur 2:x81	3.0.	3453/7362ON	37,361	1013		
1	10.1	(reduct 1 am	1.0	ANN 24TH/CHIM	10,391	1012		
98.	24	Putted 1 etc.	2.0	hus.bi/THDOW	105,341	1963		
76.	10	Welford 2 with	1.0	Aux 217142-DW	10,341	3004		
96.	18	INTERACTIONS.	5.0	1888 2XTM22094	10,041	3005		
ά.	14	method 1 mit:	1.0	887247943018	10,261	308		
74	18	Pathod 2 ndi	14	And LVTH20H	30,341	1612		
19	19	index 2 kits	2.0	16443/c734524598	10,041			
21	#	Hoted 1 Mt	2.0	1002/19/2019	10,261	2012		
а,	284	Method 2 Htt	1.0	NOSHTIS GAN	07,361	1400		
22	141	Method 1 mil	1.0	See 21/24/24/24	10,94	3025		
11		Institut 1 with	1.0	101Y ZA194(2429)	10,241	1002		

MPS liquid performance

MPS liquid is a new member of the MPS family:

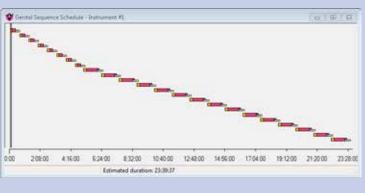
- → Dedicated liquid autosampler for GC/MS and LC/MS
- → Fast, reliable high precision technology from the new MPS robotic series

Proven MAESTRO Software Control

- → Unified control of MPS liquid and GERSTEL modules
- → Simple and reliable method generation and set up with intuitive user interface and interactive on-screen help
- → Fully integrated operation with Agilent Technologies chromatography data systems (CDS), using one method and one sequence table to operate the entire system
- → Integrated sequence table with other leading CDSs
- → Independently controlled stand-alone operation

Productive, flexible Autosampler

- → Priority samples can be inserted into the running sequence without stopping the analysis or halting the sequence
- Modular system, easily adapted to future requirements by adding accessories
- → Operates with all standard autosampler vials as well as micro- and deepwell Plates
- → Barcode label reader for accurate sample ID
- → Reliable results thanks to optimized discrimination-free fast split/splitless injection



Intelligent sequence table editor

The sequence table editor offers intelligent fill down functions such as fill down increment, for example, which automatically increments the number following the sample name. This makes it extremely easy to generate the sequence table for your daily workload based on existing methods and/or sequence tables: It only takes a few mouse-clicks to generate and set up a new sequence table with simple selection of methods, trays and GC inlets from pull down menus adapted to the configuration at hand: Only parameters relevant to the actual configuration are displayed making setup and operation as simple as possible. Equally, the method selection is simple and transparent. The system only allows the selection of methods that match the current configuration, invalid sequences cannot be activated and a warning will alert you in time before you can set up the analysis and go home for the day. You won't go wrong with MAESTRO.

Once the system is set up and running, priority samples can be inserted into the running sequence or added at any point without stopping the analysis or halting the sequence. Should a problem arise during the analysis sequence, an email message can alert the user allowing him or her to take corrective action and ensuring that the laboratory work is performed reliably and on time.

Liquid Sample Preparation

- → Simple addition of sample preparation steps using the intuitive MAESTRO Software
- → Identical treatment of all samples with perfect timing. Analyte derivatization or addition of a standard can be performed immediately prior to sample introduction for each sample.

Optimized tray design

- → High sample capacity with up to 156 vials per tray holder
- → High capacity: Up to three 96 well plates per tray holder
- → Flexible use of different vial sizes with up to three different trays types in every tray holder

Small foot print on the laboratory bench

- No extra bench space required, the MPS liquid mounts completely on top of the GC/MS system
- → When mounting on an LC/MS system, the MPS liquid can in many cases be installed across the mass spectrometer

Reliable operation

- → Highest reliability provides minimal downtime. The maintenance counter makes it easy to schedule replacement of consumables
- → Full traceability of system operation history through log files
- → E-mail alert in case of problems, enabling laboratory personnel to take corrective action and deliver results on time
- → MAESTRO methods can be set up in 21CFR/11 compliance



GERSTEL TriStar Syringes

You need an excellent autosampler syringe in order to perform complex sample preparation methods and reliably inject large numbers of samples into a chromatography system. Lowest possible sample to sample carryover and highest accuracy are required GERSTEL TriStar Syringes are designed and produced to meet these demands.

The TriStar syringe series offers several improvements to minimize or eliminate sources of carry-over, such as reduced dead volume and elimination of active sites. The sample is kept clean and uncontaminated, and the needle remains firmly fixed without the risk of solvent attacking the sealant.

The rugged and inert materials used provide resilience to solvents, expanded temperature range and long operating life.

The new design allows TriStar syringes to perform 10 times more injections than standard syringes. Syringes for the GERSTEL MPS are available in all standard sizes.

Benefits of the GERSTEL TriStar Syringes

Color coded

- → Easy selection of the correct syringe size through clear and unambiguous color coding
- → Reliable analysis, the risk of incorrect syringe selection is minimized

Inert, rugged materials

- → Reliable analysis performance with solvent-resistant surfaces
- → Extended temperature range for increased ruggedness and application range
- → Extended operation life

Minimized background

→ Inert surfaces and elimination of contact between sample and sealants

Optimized assembly

- → Carry-over minimized through reduced residual volumes in the plunger assembly, improved surfaces and PTFE surface sealing
- → Carry over and contamination reduced through improved syringeto-needle connection, eliminating cavities and contact with sealant
- → Active plunger tip provides improved Headspace syringe sealing and reduced temperature equilibration times resulting in improved flexibility and productivity



1n 000

www.gerstel.com

