



Introducing Easy SamplePrep

Automated Sample Prep Made Easy

for Agilent OpenLAB CDS ChemStation and MultiTechnique ChemStation

Agilent's new G7300AA Easy SamplePrep software lets you easily automate sample preparation steps (such as addition, extraction, heating, and mixing) to perform derivatizations, internal standard additions, serial dilutions, and similar tasks before running an analysis. Easy SamplePrep is an add-on software for Agilent OpenLAB CDS ChemStation and MultiTechnique ChemStation data systems controlling an Agilent 7890A or 6890 Series GC with a 7693A injector and tray.

Easy SamplePrep provides the following features:

- Easy to use interface
Drag and drop icons to quickly create a sample prep program.
- Resource specification
Specify chemical resources to be used for dilution, derivatization, and so forth.
- Verification of sample prep resource usage
- Works with the Easy Sequence Queue to predict whether enough resources are available for a sequence to run to completion. Compares resource needs of all queued sequences against defined available resources.



Easy to use interface

- Drag and drop to create program steps.
- Add program steps with minimal data entry.

Drag and drop icons to create a sample prep program

View individual step details

The screenshot displays the 'Setup Method' window for the 'Agilent 7890A Sample Prep Program'. The interface includes a 'Program' section with a visual workflow of steps: 'Add' (blue), 'Add' (white), 'Mix' (white), 'Heat' (white), and 'Select' (white). An arrow points from the 'Add' icon in the 'Actions' palette to the first 'Add' step in the program. The 'Steps' list on the right contains five numbered instructions: 1. Add 450 uL of Sample (Front) to DerivatizedSample1, 2. Add 150 uL of DerivatizingReagent to DerivatizedSample1, 3. Mix DerivatizedSample1 at 1000 RPM for 0 min 5 sec, 4. Heat DerivatizedSample1 at 60 °C for 15 min 0 sec, and 5. Select DerivatizedSample1 as the GC Front Injector injection vial. Below the steps are two tables: 'Resources Tracked By Use' and 'Resources Tracked By Volume'.

Resources Tracked By Use

Resource Name	Resource Type	Uses/Vial	Vial Range
Process Vials	EmptyContai...	1	81-90

Resources Tracked By Volume

Resource Name	Resource Type	Usable Volume/Vial	Vial Range
CarbonDisulfide	ChemicalRe...	1000	121-125
DerivatizingReagent	ChemicalRe...	1000	91-93
Hexane	ChemicalRe...	1000	131-140
ISTD	ChemicalRe...	1500	109-110...
Methylene Chloride	ChemicalRe...	1500	101-105...

Resource specification

- Specify chemical resource vials for the sample prep program.
- Name resources.
- Select how to use each resource — whether by number of uses or by volume available.
- Set default syringe parameters for each chemical resource.

Define chemical resources

Quickly view resource assignments using color coding

Easy Sample Prep Resource Editor Version 2.1

Resource Name: CarbonDisulfide
 Resource Type: Chemical Resource
 Use Type: By Volume
 Usable Volume per Vial (µL): 1000
 By Use
 Uses per Vial: 1
 Display Color: Maroon

<< Resource Syringe Parameters

Syringe Parameters

Syringe Size (µL): 250
 Number of Washes: 1
 Number of Pumps: 1
 Wash Volume (µL): 50
 Draw Speed (µL/min): 500
 Dispense Speed (µL/min): 600
 Needle Depth Offset (0.1 mm steps): 0
 Viscosity Delay (s): 1
 Air Gap (% Syr. Vol.): 0

Vial Range: 121-125

Add Remove Replace Clear

<input checked="" type="radio"/> CarbonDisulfide	Chemical Resource	1000 uL/vial
<input type="radio"/> DerivatizingReagent	Chemical Resource	1000 uL/vial
<input type="radio"/> Hexane	Chemical Resource	1500 uL/vial
<input type="radio"/> ISTD	Chemical Resource	1500 uL/vial
<input type="radio"/> Methylene Chloride	Chemical Resource	1000 uL/vial
<input type="radio"/> Standard 1	Chemical Resource	1000 uL/vial

Help Save Layout Print Layout Close

Submit with Easy Sequence Queue

- Queue samples and know that enough chemical resources are available.
- Works with the Easy Sequence Queue only.

Instrument Control Easy Sequence Sequence Queue Easy Sequence Setup						
Active Queue: Data System NOT Accepting Sequences (The instrument is not idle.)						
Sequences in the Active Queue: 1						
Name		Time entered into Queue		Estimated Completion Time		Status
MySequence		3/18/2010 10:01 AM				Running
Run Number	Location	Name	Method	Start Time	Status	
1	1 (front)	MySample0001 (front)	MYMETHOD.M	3/18/2010 10:01:56 AM	Complete	
2	2 (front)	MySample0002 (front)	MYMETHOD.M	3/18/2010 10:04:53 AM	Complete	
3	3 (front)	MySample0003 (front)	MYMETHOD.M	3/18/2010 10:07:50 AM	Complete	
4	4 (front)	MySample0004 (front)	MYMETHOD.M	3/18/2010 10:10:23 AM	Running	
5	5 (front)	MySample0005 (front)	MYMETHOD.M		Pending	
6	6 (front)	MySample0006 (front)	MYMETHOD.M		Pending	
7	7 (front)	MySample0007 (front)	MYMETHOD.M		Pending	
8	8 (front)	MySample0008 (front)	MYMETHOD.M		Pending	
9	9 (front)	MySample0009 (front)	MYMETHOD.M		Pending	
10	10 (front)	MySample0010 (front)	MYMETHOD.M		Pending	

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Printed in USA
August 31, 2011
5990-5349EN