Method Setup Quick Start Guide

Agilent 850-DS Dissolution Sampling Station

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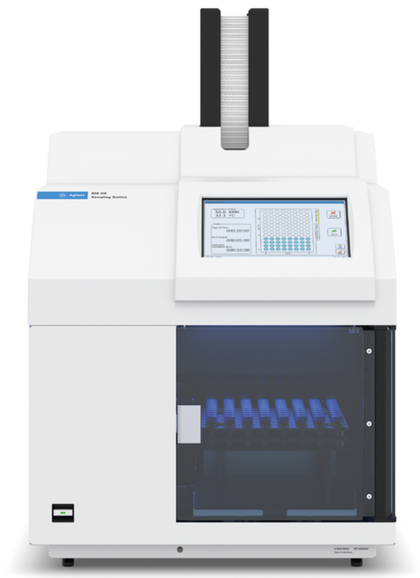
Optimize your dissolution sampling

The Agilent 850-DS Dissolution Sampling Station incorporates seamlessly into your existing workflow to provide an unattended sampling and cleaning solution that increases productivity and eliminates variability.

Supporting a range of dissolution methods, the 850-DS works with USP dissolution apparatus 1, 2, 3, 5, 6, and 7 for precise and repeatable results using conventional test tubes, HPLC vials, or 96-well plates.



For further method setup assistance, contact Agilent at:
dissolution.hotline@agilent.com

Key Parameters	Description	Importance	Guidance	Min. *	Typical	Max. *
Prime Volume	Volume to prime the lines prior to pulling a sample	Helps overcome absorption on filters and dilution in sampling lines, ensuring that lines are full prior to pulling sample	Method/product-specific parameter: should be adjusted/optimized accordingly	4 mL	**10 mL**	25 mL
Purge Volume	Volume to purge sample lines once sample collection has completed	Ensures lines are emptied of current sample before pulling the next; stops potential dilution of sample pulled with volume from previous timepoint	Method-specific parameter: dependent on sample tubing volume	6 mL	**12 mL**	25 mL
Waste Drop Volume (mL)	Volume pushed through the needles prior to dispensing the sample into the collection vials	Flushes/primes needles prior to sample collection to ensure volume accuracy and sample concentration; volume is deposited to waste and should be accounted for in all relevant calculations	Method-specific parameter: product-dependent setting	0.2 mL	**0.5 mL**	10 mL
Estimated Minimum Transfer Time	Indicator for minimum sampling cycle time	Allows user to quickly determine sampling frequency during method setup; transfer time is updated as parameters are adjusted (faster pump speed or decreased volumes = shorter sample cycle)	Instrument and method parameters will affect estimated minimum transfer time	Optimized based on your method requirements		
Aspiration Dwell Time (sec)	Time the syringe pump stops at end of the pull stroke	Allows liquid to pull through sampling lines into syringe before pushing forward	Instrument specific parameter: determined based on media and viscosity More viscous media/media with surfactants requires longer aspiration dwell time; when using the 850-DS filter module, a minimum dwell time of 3 seconds is required	1 sec	**1 sec**	5 sec
Pump Speed: 6, 8, 10, or 12 mL/min	Speed of liquid movement through the sample lines	Helps to determine minimum sampling time duration (in addition to the various volumes)	Instrument setting: should be determined based on media type and required timepoint frequency More viscous media/media containing surfactants will benefit from reduced pump speed	6 mL/min	**10 mL/min**	12 mL/min
Prime Loss Volume	Volume of the fluidic path from the sampling point to the place of analysis/collection, including the cannula, tubing, flow cells	Provides accurate collection and/or analysis of volume removed from each vessel at the exact sample timepoint	Instrument setting: determined per system and configuration	4 mL (708-DS/850-DS) 7 mL (708-DS/850-DS/Cary 60)		

* Recommended

850-DS User Manual
Download this detailed guide to setting up, running, and maintaining your 850-DS.
www.agilent.com/chem/850-ds-user-manual

850-DS Cleaning Procedure
The 850-DS self-cleans after each dissolution test. Settings and guidance:
www.agilent.com/chem/850-ds-cleaning

850-DS Volume Calibration
The 850-DS volume accuracy should be reverified periodically. Complete procedure:
www.agilent.com/chem/850-ds-volume-calibration

Get the Answers You Need
Join the Agilent Dissolution Community for support. Access and help:
https://community.agilent.com/technical/dissolution

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