



Simplify Dissolution Through Automation

Agilent 850-DS Dissolution Sampling Station





Ready to Increase Productivity and Eliminate Variability?

The Agilent 850-DS Dissolution Sampling Station simplifies your dissolution workflow through unattended sampling, filtering, and cleaning. It's designed to be seamlessly incorporated into your existing dissolution instrumentation and software systems.



Here's how the 850-DS immediately enhances your laboratory productivity:

- It precisely and repeatably withdraws samples from the dissolution apparatus, reducing variability and improving throughput efficiency.
- It stores methods and controls all dissolution parameters—from the dropping of dosage forms to final data collection or export.
- It enables unattended sampling into conventional tubes, vials, or 96-well plates.
- It includes automated self-cleaning, allowing you to focus on more business-critical tasks.

Improve Your Dissolution Workflow

Many standard and optional features contribute to the superior performance of the 850-DS Dissolution Sampling Station.

Filter module*

For 0.2 or 0.45 µm filtration—saves space and makes filter replacement easier between time points



Integrated syringe pump, filter module, and sample collection tray

Conserve bench space

Variable pump speeds

Shorten time point intervals and handling of different media types, including surfactants

Rinse port

Enables an automated cleaning cycle that improves performance and turnaround time



Sample trays*

Various sample trays available for UV-Vis or HPLC sample collection—including Agilent trays for direct transfer to the LC

*Optional



Media replacement

Standard feature—can be used with or without the optional filter module



Color touchscreen and alarms

Keep you informed of instrument conditions, including the installed sample tray format

Direct sampling

Eliminates evaporative loss by sampling into sealed mL vials



Built-in printer*

Documents dissolution tests

Enhanced firmware features make it easy to achieve consistent, reliable dissolution results

Method Properties

Sample Volume	5.0 mL
Prime Volume	5.0 mL
Purge Volume	5.0 mL
Waste Drop Volume	1.0 mL
Dual Sample	<input type="checkbox"/>
Min Transfer Time	02:00
Enable Filtration	
Samples / Filter	1
Type	0.45 MICRON TEFLOH

Media Change
 Full Media Change
 Media Addition

Enable Media Replacement
 % of sample
 mL

Enable Cleaning Cycle

CLEAR **CANCEL** **BACK** **NEXT** **SAVE**

Accurate timing

To calculate sampling intervals and differentiate between full or partial media charges

User Access

- Administrator Mode
- Advanced User Mode
- User Mode
- Change Password

RETURN

User access levels

Prevent unauthorized instrument and method changes

Start Options

Documentation

Operator	<input type="text"/>
Lot	<input type="text"/>
Batch	<input type="text"/>
Note	<input type="text"/>

Collector Options

Dissolution Apparatus Control

Start Options

Instant
 Vessel Temperature
 Bath Temperature

Time Delayed

SYNCHRONIZED START **CANCEL** **RUN**

Synchronized start

Enables performance of dissolution tests in parallel

*Optional



Complete Your Dissolution Workflow

Paired with an Agilent dissolution apparatus, the 850-DS controls all aspects of the dissolution system—including method writing, initiation, and maintenance.

You can configure the 850-DS with these components:

- Agilent 708-DS Dissolution Apparatus for USP 1, 2, 5, or 6
- Agilent BIO-DIS Reciprocating Cylinder (USP Apparatus 3)
- Agilent Reciprocating Holder Apparatus 7
- Agilent Dissolution Workstation Software to control up to four systems from one PC
- The Cary 60 Multicell UV Dissolution System to enable online UV-Vis analysis, sample archival, or offline HPLC sample collection



Samples collected by the 850-DS into an Agilent HPLC sample tray can be placed directly into the HPLC autosampler. There's no need to manually transfer vials to a separate tray.



Online dissolution testing: Cary 60 UV-Vis

You can combine the Cary 60 UV-Vis spectrophotometer with the 708-DS and 850-DS in an online UV dissolution system configuration.

- Flexibility is maximized with an online system that can be used for products requiring UV-Vis or HPLC analysis.
- The 850-DS is perfect for online analysis, sample archival, or offline collection of HPLC samples.
- Compliance and efficiency are enhanced by automating calculations and report generation with Agilent Cary WinUV dissolution software.



Simplify Your Nanoparticle Dissolution Testing

Are you struggling to achieve consistent, reliable dissolution results for nanoparticle-based formulations? Would you like to automate this process, while ensuring cGMP compliance?

If you answered “yes,” then Agilent has good news for you. Our new NanoDis System combines traditional dissolution instrumentation with powerful software to help you optimize the right formulation and ensure repeatability in a QC environment.

Shorten your development time through semi-automated nanoparticle filtration

Manual sampling and testing of nanoparticle drug formulations can be time-consuming and inconsistent, which slows your development time.

You can perform compliant, semi-automated testing of nanoparticle drug formulations with the Agilent NanoDis System. Developed in collaboration with nanoparticle experts, this first-of-its-kind system combines sample automation with USP Apparatus 1 or 2. And that means you can achieve these goals:

- Confidently optimize the lead formulations with the best expected *in-vivo* profile.
- Save time and improve test-to-test consistency.
- Accurately separate APIs from nanoparticles using hollow-fiber filters.
- Evaluate multiple formulations and dissolution products.

The secret lies in the software, which lets you optimize key parameters of the dissolution method specific to the formulation being evaluated. So you can adjust your method to accommodate changes to your product or formulation.



Worry-free integration

The NanoDis System is designed to fit seamlessly into your existing dissolution instrumentation and software systems.

708-DS

Dissolution Apparatus

Includes standard apparatus for USP 1, 2, 5, and 6 with volume flexibility

Peristaltic pump

Eight-channel peristaltic pump moves sample from the vessel to the hollow-fiber filter

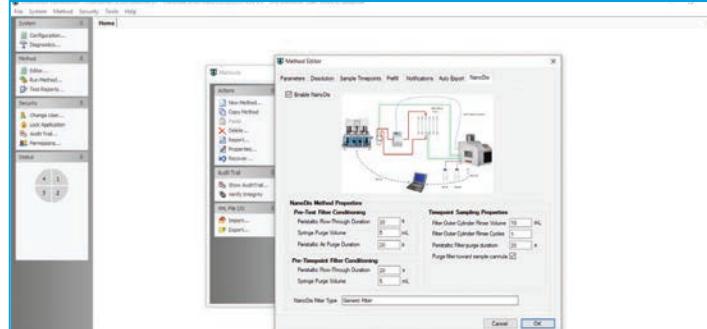
850-DS Dissolution Sampling Station

Autosampler collects filtrate from the hollow-fiber filter for analysis



Hollow-fiber filter holder*

Accommodates hollow fibers of various lengths



Dissolution Workstation Software

Controls system, optimizes test parameters, and ensures compliance by electronically documenting all activities

*Filters not supplied by Agilent. Selection assistance and references available.

Take Control of Your Day

Dissolution Workstation Software enables you to manage your dissolution workflow simply, securely, and cost-effectively. It integrates Agilent dissolution apparatus and automated sampling components—including the 850-DS. So you can simultaneously control up to four systems from a desktop PC.



What are the advantages of Dissolution Workstation?

- **Time-saving.** Consolidate and maintain your dissolution systems, methods, and data in one paperless, centralized database with options for exporting information. You can also build, edit, search, retrieve, and archive dissolution methods and test reports from a single interface.
- **Compliant.** Be confident knowing that the software maintains a continuous activity log for the method in use. It also provides audit trails of method and/or configuration changes for a 21 CFR Part 11 compliant environment.
- **Secure.** Access, organize, and protect your data using integrated Microsoft Windows security. The software includes features designed for easy data export and integration with LIMS or electronic notebooks.

Partner with Agilent to Meet Your Dissolution Workflow Challenges

Service and qualification: Focus on what you do best.

Let our experienced, highly trained engineers and chemists provide you with installation and familiarization, hardware and software training, and complete qualification services.

Together, we can help you meet your needs for:

- Instrument maintenance and repair
- Regulatory compliance
- Software and data systems
- Training and educational services



Want to learn more?

Contact an Agilent representative, or submit a request on explore.agilent.com/hotline

Here's why you should join the Agilent Dissolution Community

No matter which brand of dissolution apparatus you use, our Community lets you:

- Get the latest information about apparatus, online analysis, and software.
- Review application notes, calculators, troubleshooting guides, and white papers.

Simply go to www.agilent.com/chem/dissolution-community

Learn more:

www.agilent.com/chem/850-DS

Find a local Agilent customer center in your country:

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