

Online UV-Vis Dissolution System: Cary 60

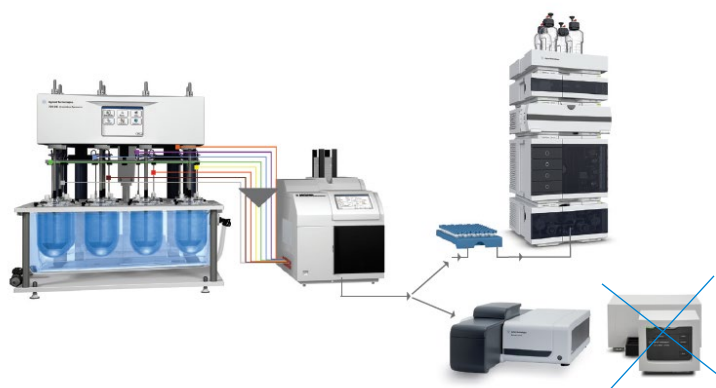
Provided to Help You Get the Most from Your Agilent Dissolution Products!

The performance testing of ointments, creams and gels can be challenging. It is difficult to properly evaluate the in vitro release of the active ingredient from the formulation and quantitate the rate of diffusion across a barrier such as an artificial membrane.

The skin is extensive and one of the most readily accessible organs of the human body. It has a surface area of approximately 1.7 to 2 square meters. It is comprised of three main tissue layers: Epidermis (stratum corneum), Dermis and Hypodermis (subcutaneous tissue). Topical products for systemic use include not only transdermal drug delivery systems but also, ointments creams and gels. The stratum corneum is the principle barrier to systemic drug administration and the in vitro system should simulate the release of the drug at this route of administration.

Automate dissolution sample analysis with the either of Agilent's two online system options in a variety of scalable configurations. Each system is comprised of:

- 708-DS Dissolution Apparatus
- 850-DS Sampling Station or peristaltic pump
- Cary 60 UV-vis Spectrophotometer
- Cary WinUV Dissolution Software



The **Cary 60 system** utilizes Cary WinUV dissolution software to control the dissolution system, data capture, and report processing. The Spectroscopy Database Administrator (SDA) and Spectroscopy Configuration Manager (SCM) govern compliance to ensure that the necessary 21 CFR Part 11 requirements are met.

Technical details

	Cary 60
Closed Loop Sampling	Yes
Path Lengths (mm)	1, 2, 5, 10
Automated Dosage Delivery	Yes
Automated Sampling	Yes
Temperature Monitoring	Yes
In-situ Fiber Optic Measurement	Yes
Sample Filtration	0.2 μm or 0.45 μm
Sample Archival	Yes
Number of Apparatus	1 or 2

Ordering information

- [Cary 60 Multicell System and Cary 60 Fiber Optic System](#)

Literature

- [UV-Dissolution Systems Brochure](#)
- [Cary 60 Specification Sheet](#)

System Diagrams / Schematics

- [Cary 60 Systems](#)

Related Publications

- [Practical Solutions – Work Smarter, Not Harder Using Online UV-Dissolution](#)
- [Practical Solutions \(p. 5\) – Increase Bandwidth Using Fiber Optics for Dissolution](#)
- [Dissolution Technologies - In Situ Drug Release Monitoring with a Fiber-Optic System: Overcoming Matrix Interferences Using Derivative Spectrophotometry](#)

Helpful Links

- [UV-Dissolution Systems Video](#)

Agilent Sites and Services for Your Dissolution Workflow



Agilent Dissolution Systems Digital Source Book
www.nxtbook.com/nxtbooks/agilent/dissolution_sourcebook/index.php

Dissolution Exchange
www.dissolution.chem.agilent.com

Dissolution 1-on-1 Training
www.dissolution.chem.agilent.com/learn-dissolution-1-on-1

Dissolution Hotline (Email Address)
dissolution.hotline@agilent.com

Dissolution Discussion Group (DDG)
www.dissolution.com