



Not all spectrophotometers give you the **complete picture**

Agilent 8453 Spectrophotometer

## The Agilent 8453 eliminates contamination problems while delivering fast, repeatable results

If your spectrophotometer fails to capture the complete UV-VIS spectrum, the validity and repeatability of your measurements may be jeopardized by contaminants retained with your target analytes.

With its photodiode array (PDA) light path, Agilent's 8453 gives you several advantages over traditional scanning instruments:

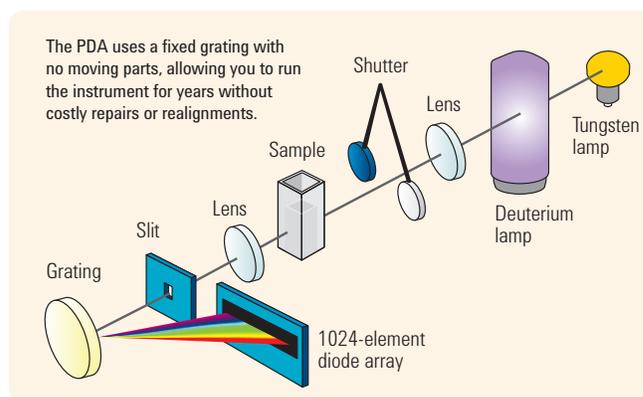
- **A complete spectrum:** Nothing gets past Agilent's 8453, because it saves the *complete spectrum* – not just your original range of interest. So you can refer back to your data to search for impurities, or investigate samples further.
- **Faster, simpler scans:** With the touch of a button, Agilent's 8453 takes a snapshot of the entire spectrum (190 to 1100 nm) in under *one second*.

- **Fewer re-alignment issues:** The shutter is the *only* moving component of Agilent's 8453, allowing you to move the instrument without tedious recalibration.
- **Intuitive operation:** Agilent's UV-VIS ChemStation software allows lab technicians to generate a complete spectrum of data without learning the intricacies of UV-VIS measurements.
- **Reliable results, every time:** Agilent 8453 users report that they can run their instrument every day for years without expensive repairs or calibrations.

In addition, Agilent's 8453 features an open sample compartment positioned *between* the lamps and the grating, which eliminates stray light.



To learn why the Agilent 8453 is an important tool in QA/QC departments watch our FREE e-seminar at [www.agilent.com/chem/8453forQC](http://www.agilent.com/chem/8453forQC)



Our measure is your success.



# Agilent's 8453 spectrophotometer:

proven success in research, QA/QC, and method development labs



## Dissolution Testing of Finished Drugs

The Agilent 8453 can make complete UV-VIS spectra measurements in under 1 second. You can then use UV-VIS ChemStation software to schedule and store your data in compliance with 21 CFR Part 11 regulations.



## Biochemical Analysis

Together, Agilent's 8453 and UV-VIS ChemStation software can determine the concentration of an unknown sample by comparing it against a calibration curve created from known dilutions of protein concentrations.



## Chemical QA

Since the Agilent 8453 has no moving parts that can affect its measurements, your results will be highly repeatable – and your procedures consistent – regardless of operator.



## Environmental

With the push of a button, the Agilent 8453 provides quick, non-interfering analysis of environmental samples, so you can detect hydrocarbons and PCBs before they interfere with GC inlets and columns.



## Complex Formulations

The Agilent 8453, coupled with UV-VIS ChemStation software, uses a first-order derivative (absorbance rate of change with respect to wavelength) across a large number of wavelengths to provide a reliable representation of complex formulations.



## Consumer Products

The unique array-based architecture of the Agilent 8453 ensures consistent, repeatable readings today, tomorrow, and years from now.

For more application examples  
or to request your FREE brochure, go to:  
[www.agilent.com/chem/8453forQC](http://www.agilent.com/chem/8453forQC)

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