

# Agilent Raman Solutions for Pharmaceutical QC

Lower your costs and streamline your workflows in raw material identification, content uniformity testing, and polymorph analysis



## Agilent Raman raw material ID systems

Raman spectroscopy is frequently used to identify incoming goods in pharmaceutical manufacturing but requires thin transparent containers to work. Agilent's Raman systems use spatially offset Raman spectroscopy (SORS) to verify the identity of incoming raw materials through transparent and nontransparent containers—no sampling and no container opening required. By avoiding sampling booths, testing can be done directly in the quarantine area for the fastest possible release to manufacturing. Improve your current testing protocols—from low volume sampling to 100% ID testing—and future-proof your process as regulatory requirements for testing increase.



### Agilent Vaya system

Vaya is the first handheld Raman system with SORS technology for the fast identification of raw materials through containers. Compatible with most raw materials, Vaya works in seconds through clear vials, transparent/colored liners, white/colored plastic tubs, FIBCs, papers sacks, and amber glass bottles.



### Agilent RapID system

RapID is a portable, wheeled system for raw material testing when working with the most challenging opaque containers. RapID addresses pharmaceutical ingredients and common excipients in most containers (excluding metal and fiber drums).

RapID and Vaya can be used directly in warehouse quarantine areas. With simple workflows, barcode readers, and built-in networking support, routine testing is fast and efficient. RapID and Vaya systems are designed for use in GMP-governed raw material ID processes and support 21 CFR Part 11 compliance.

Find out more

[www.agilent.com/chem/rapid](http://www.agilent.com/chem/rapid)

[www.agilent.com/chem/vaya](http://www.agilent.com/chem/vaya)

## Agilent TRS100 system

The Agilent TRS100 Raman quantitative pharmaceutical analysis system is a transmission Raman spectroscopy (TRS) instrument for QC analysis of oral solid dosage (OSD) samples, powders, and more.

Using the TRS100, content uniformity (CU), assay, and ID of intact tablets and capsules can be performed in 10 seconds or less. Sample preparation, consumables, solvents, and highly skilled technicians are not required.

The ability to quantify different polymorphs and solid-state forms makes the TRS100 system a quick and sensitive adjunct to X-ray diffraction techniques. The TRS100 system works with powders or intact OSD samples, and can be used for nondestructive stability testing.

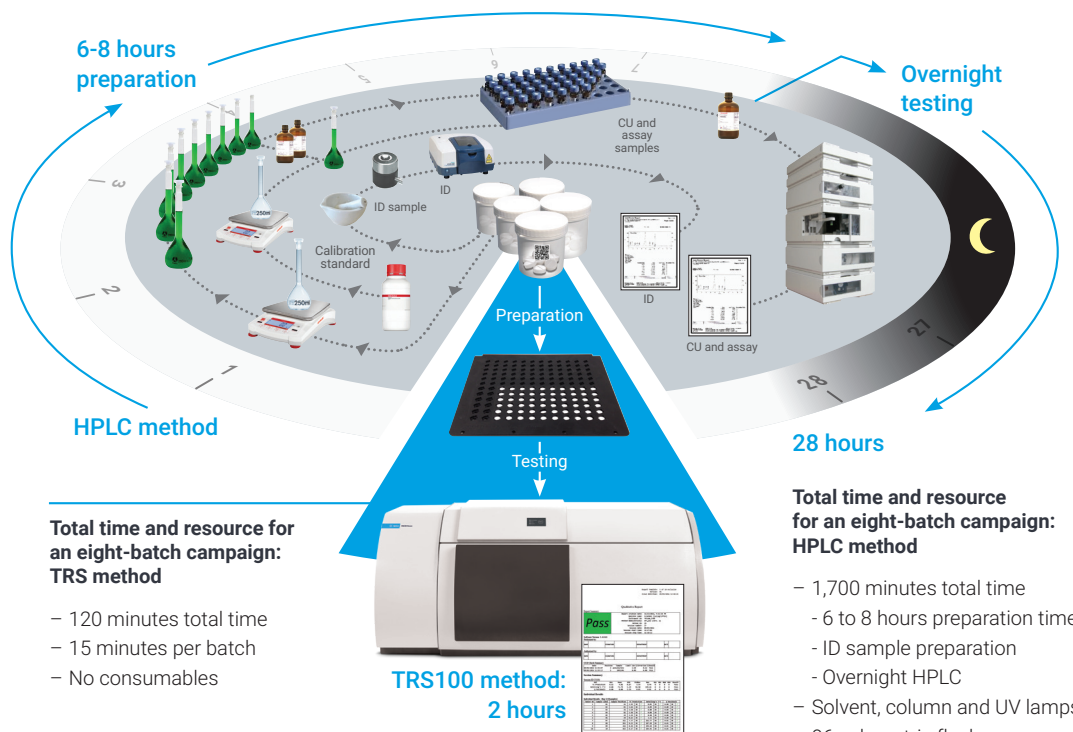
**CU, assay, and ID:** Tablets and capsules are loaded onto a tray of up to 300 tablets, which is analyzed automatically. The QC cost-savings per testing campaign are thousands of dollars compared to wet chemistry. Every batch takes just 10–15 minutes to test and a typical campaign takes 1–2 hours, without the setup or changeover time of wet techniques.

**Formulation development:** High sensitivity to active pharmaceutical ingredients or solid-state forms, down to 0.1–1 % w/w levels, with very high chemical specificity makes the TRS100 system ideal for development and troubleshooting.

**Applicability:** The TRS100 is designed for pharma and used in QC laboratories, manufacturing, and pharma R&D. Regulatory release testing accepted and 21 CFR part 11 compliant, the TRS100 is ideal for use in production, including real-time release testing, process monitoring, and large n testing.



Agilent TRS100 Raman quantitative pharmaceutical analysis system



Find out more

[www.agilent.com/chem/trs100](http://www.agilent.com/chem/trs100)

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