QUALITEST NORTH AMERICA

Advanced Testing Technologies

NEWSLETTER

May, 2026

Confident Pharmaceutical Results: From Formulation to Release

May, 2026 – When a tablet batch fails final QC, the root cause is rarely a single factor—it is the gap between measurement and certainty. Hardness, friability, tap density, and clarity testing turn 'failed batch' into specific, actionable data that you can trend across formulations, raw material lots, and process changes—so pharmaceutical decisions stop being guesswork.

Qualitest's Pharmaceutical Testing lineup is built for standards-driven QC and R&D, covering everything from routine compliance checks to advanced, software-guided workflows. The range supports major international methods including **USP, EP, ISO, and ASTM standards**, helping labs generate repeatable results with safer handling and full audit trails.

Tablet Hardness Tester QTab-Series

(QTab-350 / QTab-500)

Feature/Advantages:

- Measures tablet hardness and diameter with precision load cell technology.
- Automated recording and statistical analysis: detects and logs max, min, and average values per batch.
- Built-in User Rights Management with audit trail and long-term data storage for regulatory compliance.
- Available in 350 N and 500 N capacities to accommodate a broad range of tablet formulations.
- Test speed as fast as 15 seconds per sample, supporting high-throughput QC workflows.

Tablet Hardness Tester

QualiPharma™ THT-1350

Feature/Advantages:

- High-Precision Pressure Sensor for accurate hardness testing in single or continuous modes (up to 100 tablets).
- Integrated Data Management with statistics, analysis, real-time clock, record display, and micro-printer reporting.
- Intelligent Self-Diagnostic and Calibration System with abnormal condition alerts and calibration printout.
- Automatic Parameter Memory retains user settings and test configurations until manually reset.

Qualitest USA

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Friability Tester

QualiPharma™ FRB

Feature/Advantages:

- Simulates real-world handling stress—tumbling, abrasion, and shock—on uncoated compressed tablets.
- Compliant with USP, EP, and IP pharmacopoeia requirements for tablet friability testing.
- Microcontroller-based with user-friendly software; alpha-numeric keyboard supports sample ID entry for data authentication.
- GLP-compliant report printout with built-in real-time clock for date and time authentication.

Tap Density Tester

QualiTAP™ Series

Feature/Advantages:

- Measures tapped density and bulk density of powders, granules, and other particulate materials.
- Three configurations: QualiTAP™ 100 (single-station), QualiTAP™ 200 (dual-station), QualiTAP™ 300 (triple-station).
- Compliant with USP <616>, EP 2.9.34, ISO 3953, and ASTM B527—covering pharma, chemical, and metal processing applications.
- Flexible throughput matching: scale from standard single-station to triple-station for high-volume laboratories.

QualiTrivia

The Hausner Ratio—calculated by dividing tapped density by bulk density—was introduced by H.H. Hausner in 1967 as a simple index of powder flowability. **A ratio below 1.25 generally indicates good flow**, while **values above 1.5 suggest poor flowability.** Tap density testers make this calculation routine and reproducible.

Clarity Tester

QualiPharma™ CLR-CM2

Feature/Advantages:

- Designed for visual inspection of injectables, IV fluids, and pharmaceutical liquids for particulate matter and clarity.
- Uniform, controlled lighting environment reduces operator-to-operator variation in visual inspection results.
- Supports pharmacopoeia and regulatory requirements for sterile liquid dosage form inspection.
- Suitable for QC labs, incoming inspection stations, and compounding environments.

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Which Pharmaceutical Tester Matches Your Lab Workflow?

BEST FOR	RECOMMENDED MODEL	WHY THIS IS THE BEST FIT?
Tablet hardness QC with automated data recording and statistical reporting	QTab-Series (QTab-350 / QTab-500)	Measures hardness and diameter with automated max/min/avg statistics and built-in user rights management for 21 CFR-ready audit trails.
Advanced hardness testing with touchscreen and calibration for regulated environments	QualiPharma™ THT-1350	Precision touchscreen hardness tester with automated calibration, tailored for high-compliance pharma QC labs.
Friability testing per USP/EP pharmacopoeia for uncoated tablet durability	QualiPharma™ FRB Friability Tester	Simulates real-world handling stress on tablets; delivers pharmacopoeia-compliant friability data with microcontroller-based control.
Bulk and tap density measurement for powder, granule, and formulation characterization	QualiTAP™ Series (100 / 200 / 300)	Single, dual, and triple-station models for flexible throughput; compliant with USP <616>, EP 2.9.34, ISO 3953, and ASTM B527.
Visual inspection of injectables, IV fluids, and pharmaceutical liquids	QualiPharma™ CLR-CM2 Clarity Tester	Uniform lighting and controlled environment ensure consistent particulate and clarity inspection for sterile liquid dosage forms.

Why Choose Qualitest for Your Pharmaceutical Testing?

Built for Global Compliance:
Every instrument in Qualitest's pharmaceutical lineup is built to meet or exceed USP, EP, ISO, and ASTM requirements—so your data is defensible in any regulatory audit, anywhere in the world.

Scalable Lab Economics:
Qualitest's Best Price Guarantee and QualiFinance flexible payment program mean labs of all sizes—from independent QC facilities to multi-site pharmaceutical manufacturers—can access precision instrumentation without compromising budget.

Worldwide Technical Support:
A central service hub backed by a global QualiService authorized network ensures that instruments are maintained, calibrated, and supported wherever your lab is located—minimizing downtime during critical production cycles.

Secure & Audit-Ready Records:
Built-in user rights management, audit trails, and GLP-compliant reporting ensure your data chain of custody is complete—critical for 21 CFR Part 11 and EU Annex 11 compliance in regulated environments.

Ready to Standardize Your Pharmaceutical Testing Workflow?

WorldofTest's Pharmaceutical Testing lineup is built for repeatable, standards-based results—so labs can ensure tablet quality, powder characterization, and liquid clarity with confidence and less operator dependency. Explore the full lineup here: https://www.worldoftest.com/pharmaceutical-testing/

For expert guidance on selecting the right model for your throughput, compliance requirements, and reporting needs, contact: sales@qualitest-inc.com

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