vereo® Spray Weigh Collect System

Automated Nasal Spray Testing Workstation

Standardizing Spray–Weigh–Collect from R&D to QC

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Key Benefits:

- Rapid screening of nasal spray devices and formulation performance
- Consistent actuation eliminates analyst-to-analyst variability
- Integrated spray–weigh–collect workflow generates submission-ready datasets

How the System Works

Actuate

Automated actuation delivers controlled and repeatable device firing.

Weigh

Integrated weighing measures the mass of each delivered dose.

Collect

Direct collection captures spray into volumetric flasks for subsequent HPLC analysis.

The Vereo® SWC automates the core steps of nasal spray performance testing in a single integrated workflow for R&D screening and through-life testing.

Research and Development

- Define actuation parameters
- Program priming/repriming sequences
- Establish through-life sampling plan
- Lock acceptance criteria for transfer
- Robust transferable method.

Quality Control

- Execute approved method consistently
- Traceable shot-weight dataset
- Samples ready for content uniformity workflow
- Faster release and streamlined investigations.

This automated sequence replaces manual spray, weigh, and collection steps while maintaining consistent actuation conditions throughout the test. The result is faster experiments, more reproducible data, and simplified analytical workflows.

Dedicated Weigh Module
no resource sharing

<5 sec Weighing
settling time

Full Traceable Data
auto-logged

From Early Development to Routine Release Testing

Early development and routine quality control both depend on reliable nasal spray performance testing. In R&D, teams need to quickly compare formulation and device combinations without manual variability making real differences. In QC, labs need consistent, repeatable methods to confirm performance throughout life-cycle and release testing.

R&D: Faster Decisions with Better Data	QC: Repeatable Routine In-Vitro Tests
Rapid iteration with comprehensive datasets	Shot weight, pump delivery
Screen devices quickly to select candidates earlier	Through-life content uniformity
Detect variability early (device, formulation, technique sensitivity)	Priming, re-priming verification
Characterization of performance across the full life of the product	Force to actuate
Improve comparability across studies, analysts, and sites	Loss of prime
	End-of-life depletion. Tail-off trending.

Confident submissions and streamlined investigations.

Automated, repeatable nasal spray testing accelerates R&D decisions and strengthens QC confidence–supporting faster screening, consistent in vitro results, and streamlined investigations when performance shifts.

Built for Regulated Environments

The Vereo SWC is designed to support reproducible in vitro nasal spray testing across development and quality control environments.

- Consistent automated actuation reduces analyst variability
- Integrated spray-weigh-collect workflow streamlines routine testing
- Run records support traceability and audit readiness
- Compatible with 21 CFR Part 11 compliant software environments

By standardizing the actuation event and integrating measurement and collection steps, the Vereo SWC enables reliable data generation suitable for regulated laboratory workflows. By standardizing the actuation event, researchers can focus on true product behavior rather than operator variability.

Key Laboratory Features

- Compact bench-top footprint
- Environmental containment during spraying
- Reduced analyst handling and time per test
- Direct spray collection into volumetric flasks ready for HPLC preparation
- Integrated high-precision dose weighing
- Programmable actuation sequences for priming, pauses, and life-cycle testing.

Why Automation Matters

Manual nasal spray testing can introduce variability in actuation, weighing, and sample collection—affecting measured performance and reducing comparability across runs, analysts, and sites.

Automating the full workflow standardizes each step so every dose is generated, measured, and captured the same way, helping labs distinguish true product behavior from operator-driven variation and generate more defensible data.

Compact Bench-top Operation

Size	Height: 19.25 in (48.9 cm) Width: 14.5 in (36.8 cm) Depth: 16 in (40.6 cm) Weight: 50.0 lb (22.6 kg)
Power	– 48VDC Input Voltage
Collection Formats	– Waste; 10 mL, 20 mL, 25 mL volumetric flasks
Weight Module Readability	– 0.1 mg
Weight Module Repeatability	– 0.1 mg
Regulatory	– In accordance with FDA 21 CFR Part 11

Contact Proveris today to accelerate your development, de-risk your quality control, and empower your people.

Proveris Scientific LLC
Two Cabot Road, Hudson, MA 01749 USA
+1 (508) 460-8822 • sales@proveris.com

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