SCISSOR N3 SubCutaneous Injection Site Simulator

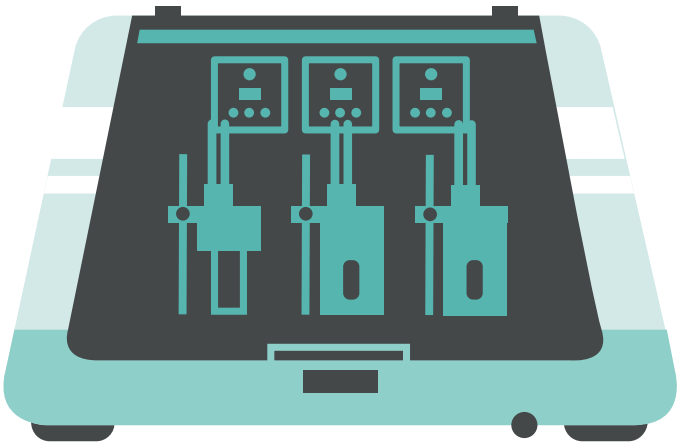
The SCISSOR N3 advances the Pion SubCutaneous Injection Site Simulator in vitro model capability for investigating the release performance of subcutaneous formulations under simulated physiological conditions. It assesses the risk and performance of subcutaneously administered drugs including biologics, peptides and small molecule.

Simulating the stress conditions and environmental transitions that can lead to aggregation and precipitation of the API or poor in vivo release performance, it allows investigation of the API with the extracellular matrix, monitors the pH change upon injection, and identifies optimal excipient conditions.

The SCISSOR N3 is the only commercially available solution that bridges the gap between standard dissolution and solubility results and in vivo Pharmacokinetics (PK) studies.

Product Features

- Run up to 3 independent assays on a single SCISSOR, simultaneously.
- Automated sample fraction collector for unattended operation, with programmable sampling volumes and times, 240 vial capacity, and media refill after sampling.
- Integrated camera and turbidity sensors for effective detection of turbidity and assessment of precipitation or dissolution of particles in suspension.
- Fiber Optic probe port for use with Rainbow R6 Concentration Monitor to generate concentration profiles in real-time.
- Physiologically relevant temperatures and bicarbonate buffer environments maintained during assays.
- Monitors pH change upon injection in the extracellular matrix (ECM).
- Custom-designed, optimized extracellular matrix options provide accurate simulation of the extracellular matrix.



Pion instruments help pharmaceutical scientists speed up the drug development process through accurate, independent measurement of absorption-related physical chemical parameters and advanced analysis software to make informed decisions, reducing time to market and costly lab time.

Our dissolution, permeability, solubility, and ionization instruments enable efficient, early phase screening of drug compounds using methods that best utilize scarce Active Pharmaceutical Ingredients (API).

Product Configurations

The SCISSOR N3 SubCutaneous Injection Site Simulator is available in the following configurations.

- **SCISSOR N3 Subcutaneous Injection Site Simulator**

  The N3 is configured with up to 3 Chamber assemblies (50 mL or 300 mL) and is used with the Fraction Collector and chamber cameras (one per chamber).

- **SCISSOR N3 Subcutaneous Injection Site Simulator with concentration monitor**

  This adds a 3-Channel Rainbow R6 in-situ UV-vis system to the N3 system and uses fixed path length dip probes.

- **SCISSOR N6 Subcutaneous Injection Site Simulator**

  The N6 system consists of two N3 instruments sharing a common SCISSOR software and fraction collector. It can be outfitted with up to 6 Chambers.

- **SCISSOR N6 Subcutaneous Injection Site Simulator with concentration monitor**

  This adds a 6-Channel Rainbow R6 in-situ UV-vis system to the N6 system and uses fixed path length dip probes.

All SCISSOR instruments require a PC with Windows 10 Pro, 64-bit. Order fraction collector, cameras, and chamber assemblies separately. Chamber assembly includes chamber, cover with cartridge holder, LED and turbidity sensors.

Pion offers comprehensive product support and service including instrument Installation & Basic Training, Preventative Maintenance and Extended Warranty programs, calibration, repair and training.

Pion stands behind the science. Contact us today.

Pion Inc. | 10 Cook St. | Billerica, MA 01821 | USA | +1-978-528-2020 | sales@pion-inc.com | www.pion-inc.com
An ISO 9001:2015 company

Contact sales@pion-inc.com