stuntman

Biologics Formulation

UNCHAINED LABS

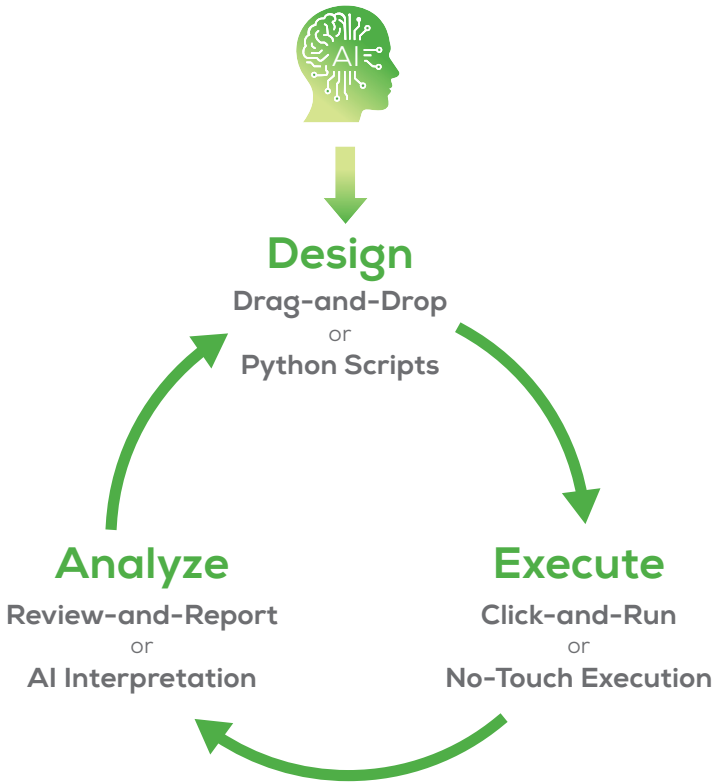
Tag in AI-driven automation

Stuntman combines built-in AI with fully modular hardware to bust out high-throughput biologics formulation, stability, and screening tasks end-to-end. Run more informed screens for buffers, additives, excipients, and ionic strength with automated measurements, and AI-driven experiment design and scripting. Whether you're running developability assessments, dialing in formulations, characterizing stability, or pushing robustness and stress studies, you can build, swap, and scale any workflow to ace every run – Stuntman's always ready to jump in.

- Developability assessments
- Formulation development
- Formulation characterization
- Robustness & stress studies
- pH, particles, turbidity, color measurements

Up the ante with AI

Built and tested on Stuntman, our AI turns your natural-language prompts into executable scripts that can drive closed-loop automation from start to finish. It helps plan and organize experiments, interpret results, and guide how things progress – you just tell it what you want to achieve. Generate entire workflows through AI, an intuitive drag-and-drop interface or dive into Python with full API access. Every condition, step, and data point is logged in open, structured formats for effortless sharing and analysis.



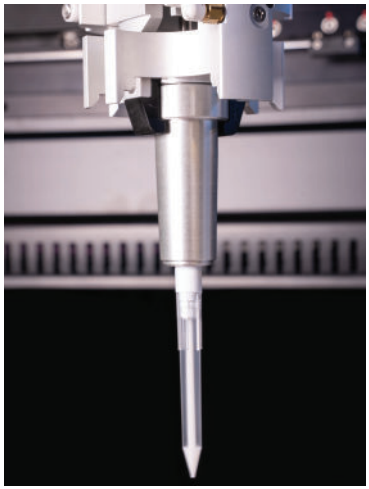
Do stunts your way

Stuntman's fully adaptable, so you can build your deck around your formulation workflow. Load it up with low volume, high-throughput pH measurements and visual inspection to flag stability issues early. Accelerate stress studies with heat, agitation, freeze/thaw or dilution. Add tools for developability, or tack on UV/Vis, DLS or other characterization tools for deeper insights. With built-in AI support, spot every stunt and tune your experiments for peak performance.

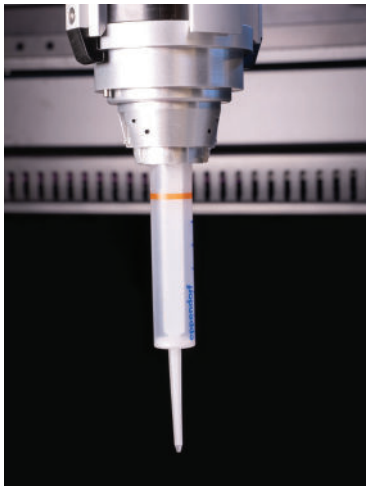
Hit your formulation mix

Stuntman makes fine-tuning formulations butter smooth. With AI guidance, pick the best combos and conditions. Variable pitch and positive displacement liquid handling adapt across plates and vials, even for concentrated proteins and tough excipient mixes. Whether you're formulating proteins, mAbs, AAVs, or LNPs, Stuntman suits up every sample for the next big thing.

Variable pitch 6-tip liquid dispenser



Rainin tool and tip



Eppendorf tool and tip

Spotlight your formulations

Stuntman's geared up to run early development screens to help you call out stable, robust, and formulation-friendly molecules from the get-go. pH measurement tears through plates like a pro – handling calibration, recording, and cleaning all on its own. Visual inspection captures color, turbidity, and particles in one clean shot. Tack on optional integrations to take an even deeper look. Every result is automatically logged and lined up for comparison, so you always know which formulations should make the cut.

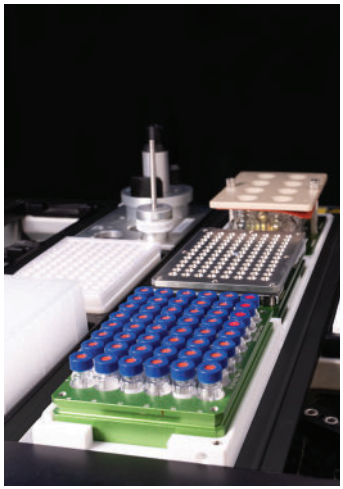
4-channel
glass pH probes

Visual inspection for
turbidity, particle, color

See who gets stressed out

Stuntman takes on stress testing to prove which formulations can hold up during manufacture, shipping and storage. Shake, spin, and visually inspect on deck to spot aggregation fast. Ramp temperatures to mimic real-world conditions or automate accelerated and long-term studies with incubators. Map robustness, flag weak points, and know with confidence which candidates can handle high stakes.

Heating/vortexing station

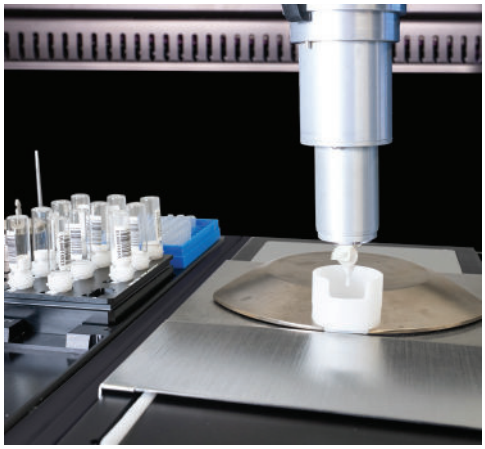


Heating/cooling/stirring station

Freeze/thaw station

Dose it right and seal it tight

Let Stuntman do the dirty work. Automated liquid handling nails accurate, reproducible dosing at low volumes and high concentrations for buffer prep, dilutions, and viscous protein dispense. Automated stoppering and crimping keep every vial sealed for storage, stability, stress testing – or for whatever's next.



Solid dispensing

Viscous liquid dispensing

Automated stoppering

Bring in the crew

With Stuntman, integrations and add-ons are endless so your science never hits a wall. Add modules for filtration, dilution or degassing to prep samples on deck. Connect directly to analytics like UV/Vis, DLS, HPLC – or automate sample prep and feed data seamlessly to off-deck systems. Whatever the trick, Stuntman's built to play well with others.

Unchained Labs
4747 Willow Rd
Pleasanton, CA 94588
Phone: 1.925.587.9800
Toll-free: 1.800.815.6384
Email: info@unchainedlabs.com

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Rev A