



millennium[®]
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UNCHAINED LABS



Killer Scientific Tools

Get your quant on

Lunatic makes batch quantification of protein, DNA and RNA a no-brainer. All you need is 2 μL and 5 minutes to measure up to 96 samples. Run them straight-up, even at high concentrations, without ever diluting. Lunatic gets biologics and genomics UV/Vis quantification on the money every time. Just drop, load and read.



96 samples
5 minutes
Plate format

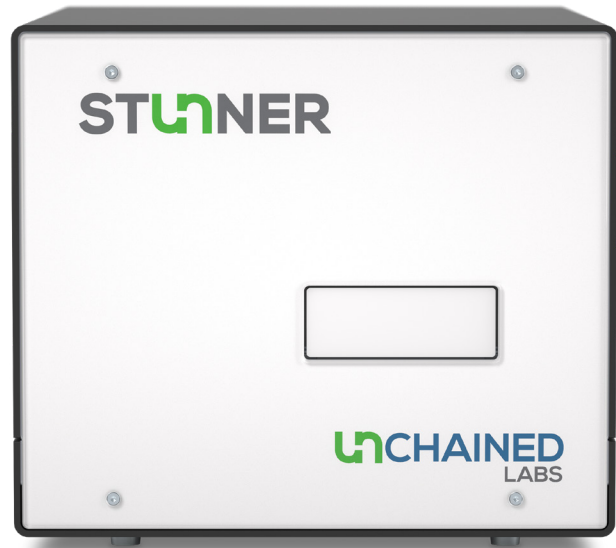


16 samples
2 minutes
Chip format

Combine and conquer

Stunner is the only system that pulls together UV/Vis concentration, dynamic light scattering and static light scattering data from the same 2 μL sample. Dig in to your AAV by bringing protein and ssDNA concentrations together with light scattering to get the total capsid titer and empty/full ratio. Nail down your protein quality by knocking concentration, hydrodynamic size, polydispersity, and detection of aggregates off your list in one shot. Without skipping a beat, you'll know if your AAV or protein is good to go.

AAV capsid titer
AAV empty/full ratio
Aggregation
Concentration
Sizing & polydispersity
 B_{22} & k_D



One-stop stability

Cracking stability using a pile of one-trick, protein-hungry tools is a ton of work. Uncle combines 3 different measurement modes – fluorescence, SLS and DLS. So you can crank out all your data in just a few hours, and use way less protein. All the info you'll get makes picking the best formulation, protein, or viral vector a piece of cake.

T_m & T_{agg}

T_m with SYPRO (DSF)

Isothermal stability

Sizing & polydispersity

Sizing with thermal ramp

Thermal recovery

Viscosity

k_D

B_{22}

G_{22}

ΔG

Viral capsid stability



See stability in hi-def

Months of stressing about what'll happen to your protein after one small formulation tweak is a royal pain – and a total waste of time. Hunky hands over the ΔG info you can't get anywhere else. Quantify your protein's stability and know if it's going to aggregate now, not later. With 4 apps to choose from, automated liquid handling and full-on data analysis, Hunky is a gotta-have for measuring stability.

$C_{1/2}$

ΔG

Agg Path

ΔG_{trend}



Characterize all your particles

Hound is the only tool out there that combines microscopy, Raman and Laser-Induced Breakdown Spectroscopy (LIBS) to count, size, and ID particles by their chemical or elemental fingerprints. With all these capabilities packed into one instrument, Hound gathers up all the info you need about your particles in minutes.

Count

Size

Shape

Chemical ID

Elemental ID



Keep your silicone in check

Wonky silicone coatings for injectable devices can jam them up or ooze oil into your drug. Bouncer makes it easy to find out if the coating's too thick, too thin or good to go. Its quantitative measurements on silicone layer thickness and distribution let you find the sweet spot for your device.

Thickness

Distribution

Mass



Cut loose from manual buffer exchange

Buffer exchange is the time consuming, hands-on chore you have to deal with before all the things you really want to do. Big Tuna automates the entire tedious process and puts all the control at your fingertips. Exchange one protein, 96 or anything in between. It handles big and small volumes with high precision, so you'll sail through exchanges without a hitch.

1-96 formulations

0.1-192 mL sample

30 min hands-on time

Up to 200 mg/mL protein



End old routines

Junior automates all your hands-on, back and forth and hard to do biologics formulation tasks. It ties them together and makes them one totally routine, high-throughput process. Hand off the grunt work to Junior, and hit the next big thing on your plate instead.

Viscosity

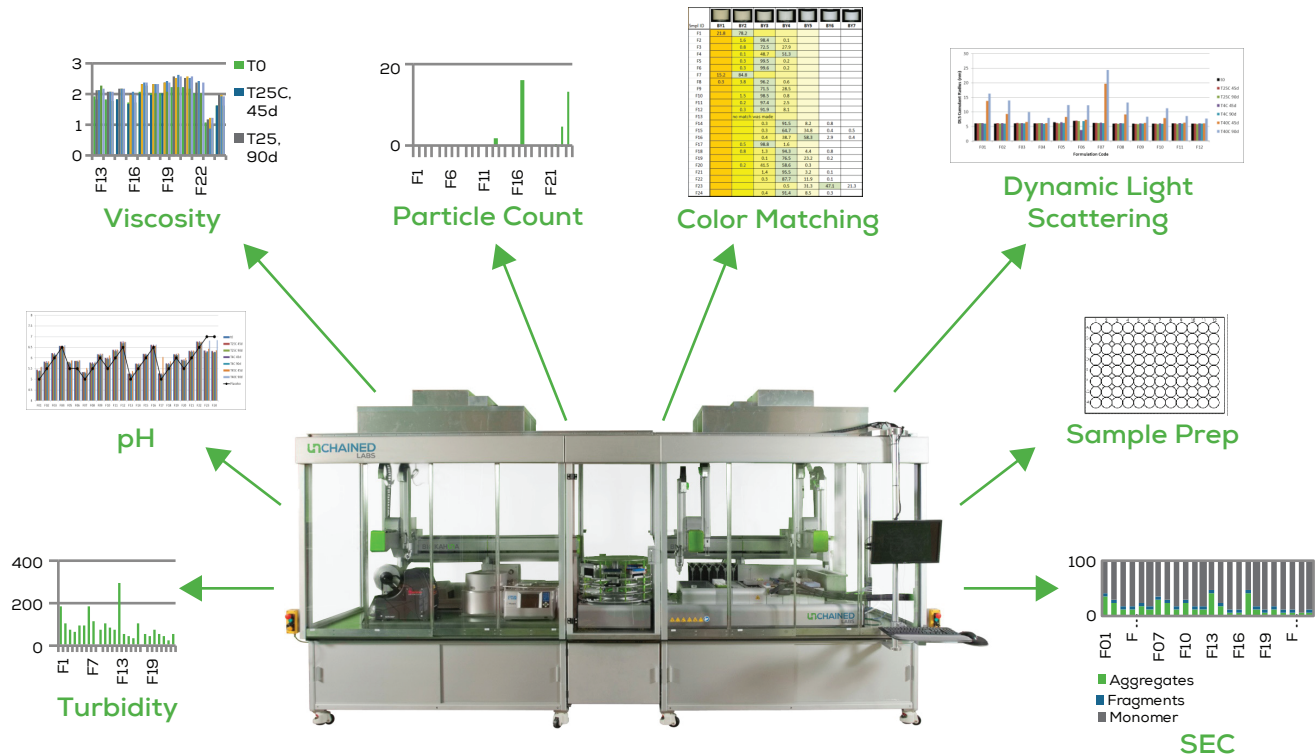
pH measurement

Visual Inspection



Nail down the right formulation faster

Big Kahuna takes on your entire biologics formulation development process and automates it end to end. It'll tackle buffer prep, buffer exchange, pH checks, sample prep and analytics. Get those accelerated stability studies done with integrated sample incubation and automated freeze/thaw systems. Take on more developability screens, check out a wider formulation space and find the most stable biologic this month – not this year.





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