

UNCHAINED LABS



Legit Biologics Tools

Size it up

Punk puts a new spin on dynamic light scattering (DLS). It lets you snag a protein's hydrodynamic size, size distribution and aggregate population a lot faster and with a lot less hassle. If killer sensitivity is on your list, Punk's unique optical design has it crossed off. Get more done with the smallest, fastest and easiest to use protein sizing system.

5 μ L sample size
Percent aggregation
Protein size
Polydispersity



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

Double-down on quant and sizing

Stunner pulls double-duty so you don't have to. It's the only system out there that takes UV/Vis concentration and Dynamic Light Scattering (DLS) size measurements from the same sample at the same time. 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 can also measure the colloidal stability of your samples or design your own custom apps.

Concentration

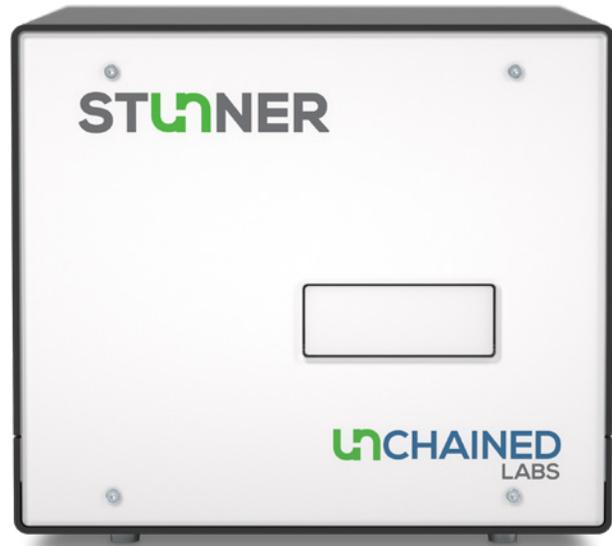
Sizing

Polydispersity

B_{22}

k_D

Homebrew



Take stability head-on

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 or protein construct a piece of cake.

T_m & T_{agg}

T_m with SYPRO (DSF)

ΔG

Isothermal stability

Thermal recovery

Sizing & polydispersity

Sizing with thermal ramp

B_{22} & k_D

G_{22}

Viscosity



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}



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

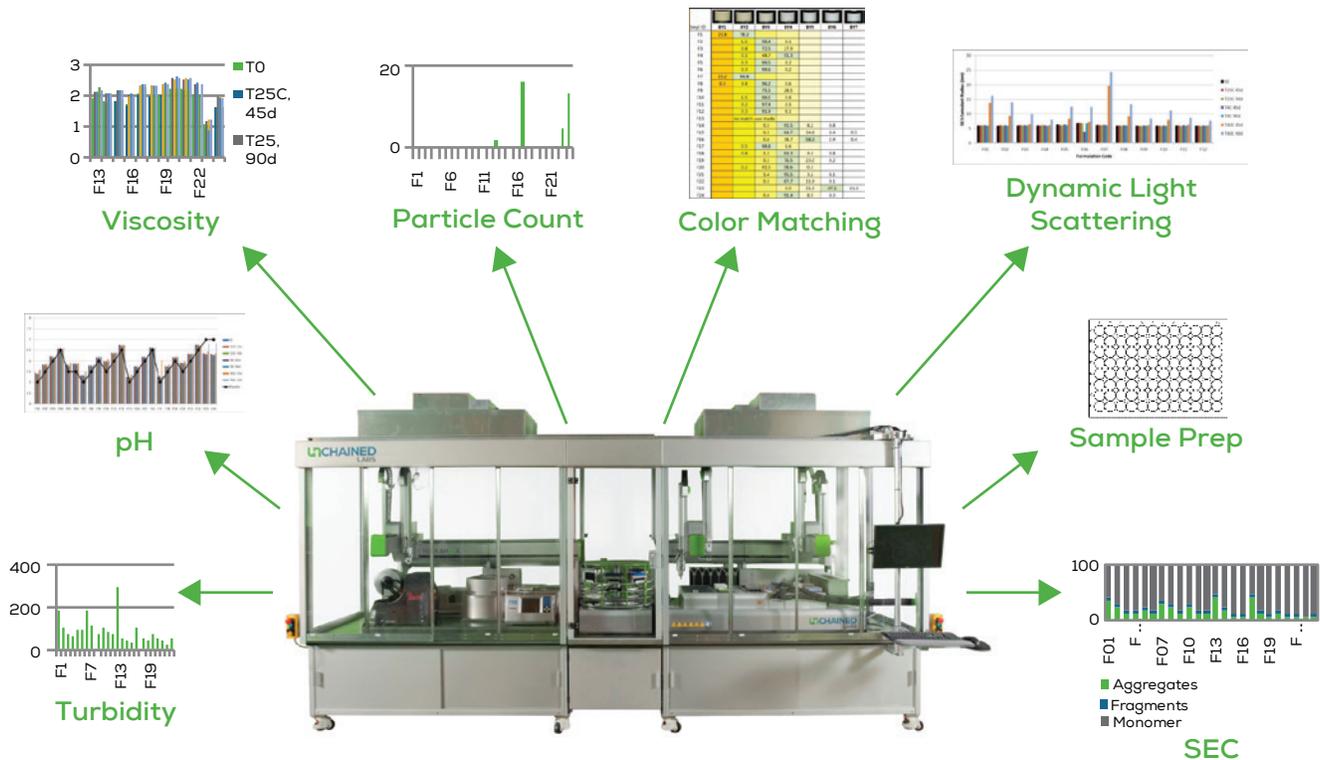
Junior automates all your hands-on, back and forth and hard to do biologics formulation tasks. It ties them together and makes them one totally routine, high-throughput process. Hand off the grunt work to Junior, and hit the next big thing on your plate instead.

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.



Finger your suspects

Particles screw up the quality of your drug and can even shut down production. Hound is the only tool out there that combines microscopy, Raman and Laser-Induced Breakdown Spectroscopy (LIBS) to forensically identify particles by their chemical and elemental fingerprints. You'll know the culprit without a doubt in minutes – so you can track it back to the source and fix it asap.

Chemical ID
Elemental ID
Count
Shape
Size
Color



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





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