honeybun

unCHAINED
LABS

Let it flow

Honeybun is the only rapid viscosity system that pours out data as fast as you can handle it. Whether you've got one sample or ten, Honeybun sips microliters of each sample through a microfluidic channel to get a read on viscosities from 0.5 – 150 cP in minutes – with zero sample prep or clean-up. Ditch old school, one-at-a-time techniques that use too much sample and level up to the quickest, low-volume viscosity measurements out there.

10 at time

40 µL per sample

3 minute runs (≤10 cP)
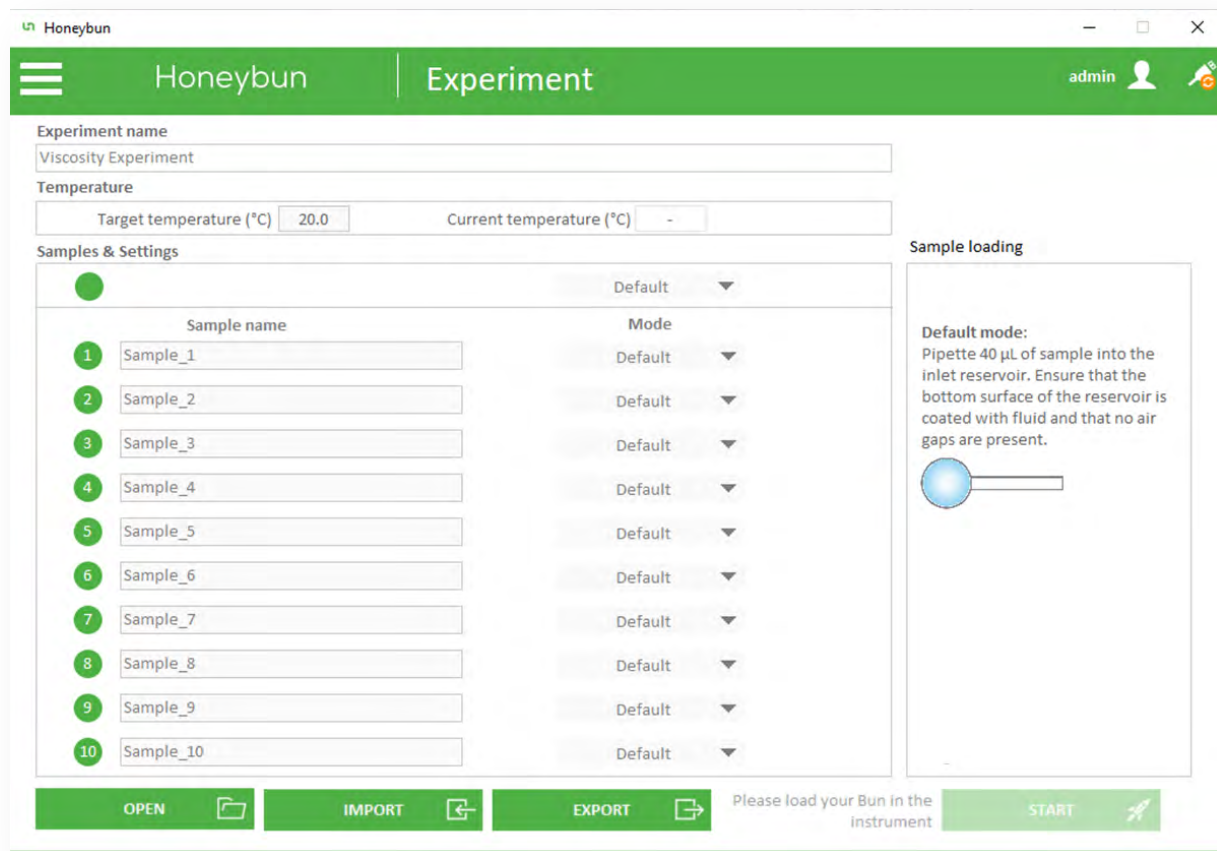
3 minutes to setup

Grab your bun

Load 40 μL of up to 10 samples into a Bun consumable, insert and hit go – nothing to it. Honeybun then applies pressure to push the samples through the Bun's microfluidic channels. While you watch them flow on live video, the software tracks how fast samples move through each channel to get you their viscosity. Gone are the days of filling syringes or cleaning expensive chips that are prone to clogging – these Buns are disposable.
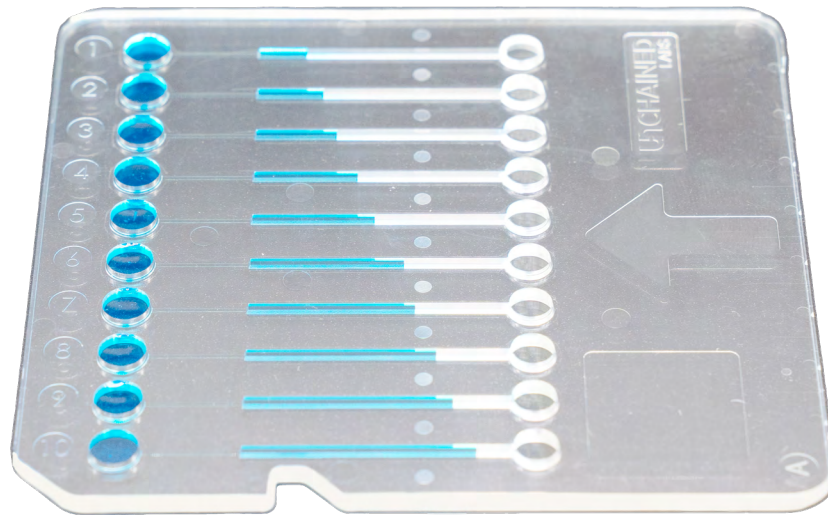
Sample Flow

Short and sweet

Fill in all the details about your samples if that's your jam or take the fast track – Honeybun's software will auto-fill everything so you can just start your run.
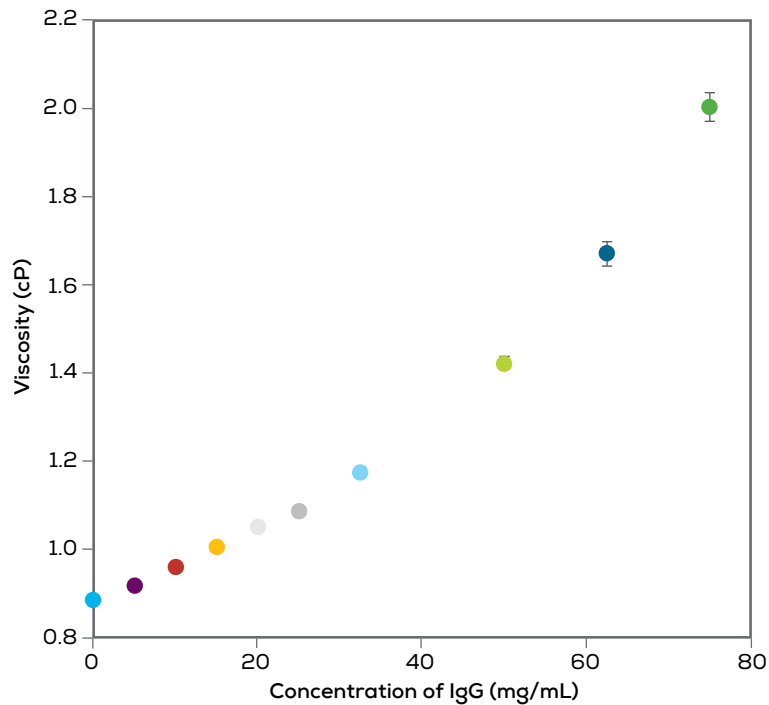Three clicks gets you through experimental setup and right to collecting data.

Satisfy your craving

When you roll with Honeybun, you'll finally be stuffed full of all the sweet viscosity data that you need. Honeybun's speed and throughput make it easier than ever to gather viscosity any time you make a change in your protein, concentration or formulation.
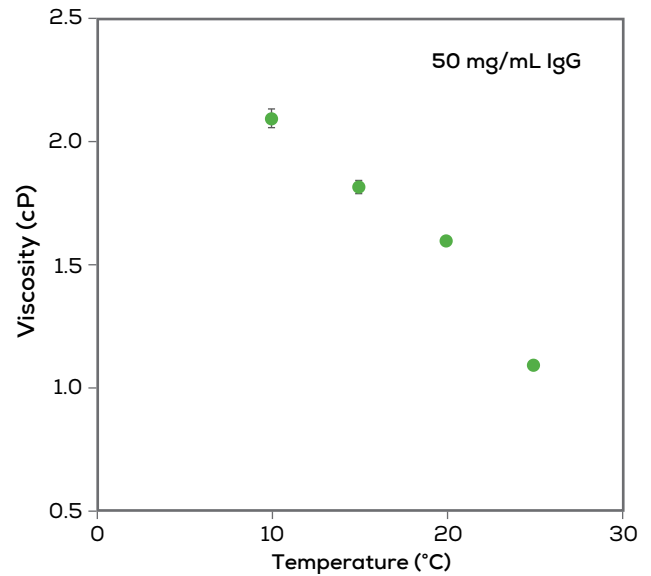
Know your flow

Every experiment includes a sweep of shear rates in each channel so you can compare how each and every sample is flowing – Newtonian or not.
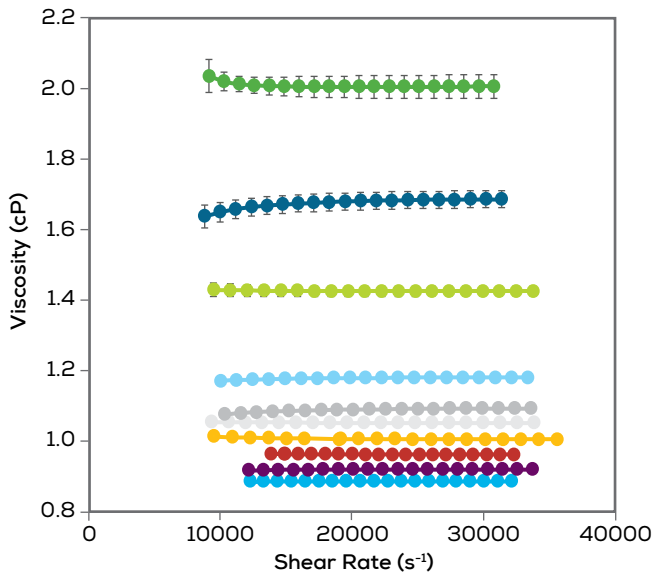
Tasty at any temp

Control temp from 10 °C up to 45 °C so you'll always know how your sample behaves – straight out of the fridge, at room temp, or in the heat of manufacturing.

Specifications

Instrument	Specification
Physical	Dimensions: 46 cm W x 45 cm D x 43 cm H; 28 kg
Computer	Separate computer with Windows 10 included
Electrical	Input voltage: 110–230 V AC 50–60 Hz Max power: 500 W
Nitrogen or compressed air requirements	Pressure: 8-10 bar (116-145 PSI) Flow rate: ≥1 L/min Gas type: Nitrogen or ISO 8573-1:2010 [7:4:4] compressed air
Detection method	Camera: CMOS Resolution: 1920x1080
Approval	CE, FCC
Application	
Sample types	Antibodies and other proteins, vaccines, viral vectors and injectables
Sample temperature range	10–45 °C
Temperature control accuracy	±0.5 °C
Viscosity range	0.5–150 cP
Viscosity accuracy	‹3%
Viscosity precision	‹2%
Consumable	
Bun material	Cyclic olefin copolymer
Samples per Bun	10
Recommended sample volume	40 µL
Measurement total time	≤3 min (≤10 cP)

UNCHAINED LABS

Unchained Labs
6870 Koll Center Parkway
Pleasanton, CA 94566
Phone: 1.925.587.9800
Toll-free: 1.800.815.6384
Email: info@unchainedlabs.com

Rev C