LUNATIC



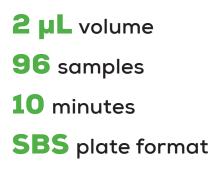




Get your quant on

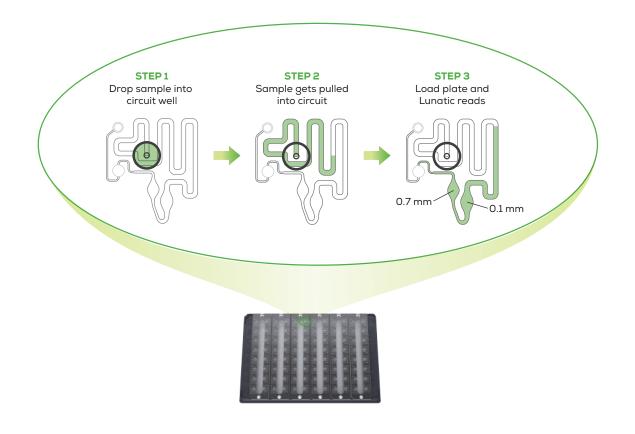
Lunatic makes batch quantification of protein, DNA and RNA a no-brainer. All you need is 2 μ L and 10 minutes to measure up to 96 samples. Run them straight-up, even at high concentrations, without ever diluting. Lunatic gets biologics and genomics UV/Vis quantification on the money every time. Just drop, load and read.





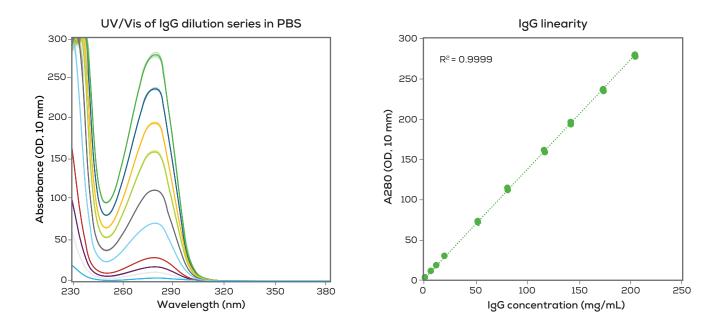
No B.S. workflow

Skip the sample prep, cleaning and worrying about cross-contamination or evaporation – your samples will sit tight for up to 2 hours. Our Lunatic plate runs 96 samples in 10 minutes. Each microfluidic circuit has two fixed pathlengths built-in to cover a wide dynamic range of 0.03–275 OD. All you do is load up your samples and get kick-ass results.



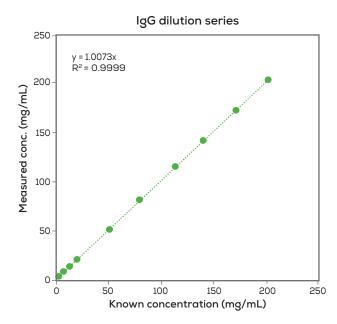
Max out your biologic

Lunatic is the only system out there that can measure biologics at high-throughput and high concentration. It's got dynamic range that covers from 0.02 mg/mL to 200 mg/mL (mAb), so run any protein without ever having to dilute again. Stop the madness of running just one protein at a time – and cleaning up afterwards.



Ridiculously good data

Get spot-on precision within 1% and accuracy within 2%. Using two fixed pathlengths, Lunatic gets you jaw-dropping data at both low and high protein concentrations and nails the expected concentrations every time. With the smallest sample size, the highest throughput and crazy accurate results, Lunatic is hands down the best tool out there for protein quantification.



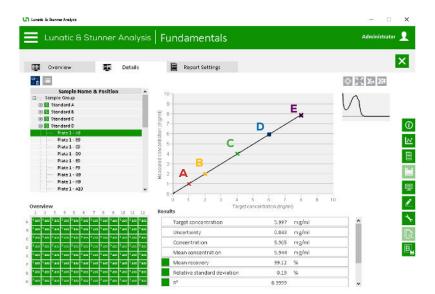
Known Conc. (mg/mL)	Average Conc. (mg/mL)	CV (%)
201.4	201.7	0.7%
169.9	171.1	0.7%
139.4	140.7	0.4%
113.1	115.0	0.6%
79.4	80.7	0.2%
50.2	51.2	0.2%
19.9	20.3	0.3%
12.1	12.2	0.2%
7.21	7.28	0.2%
2.35	2.37	0.2%

Accuracy you can show off

Lunatic has shocking accuracy and wants to prove it. Using the Fundamentals tryptophan standards, the accuracy, precision and linearity of the instrument can be proven at any time – at the protein-relevant 280 nm wavelength and OD range of 20-225. Be confident about every sample with data that leaves no room for doubt.



The Fundamentals Certified tryptophan standards OD range 20-225

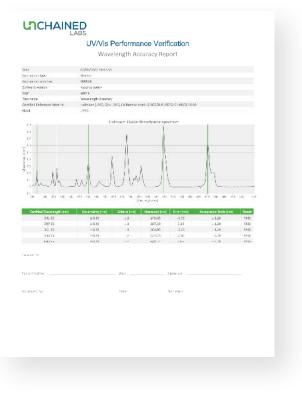


Downstream ready

Smash through the USP & Ph. Eur. UV/Vis requirements for absorbance accuracy, precision, linearity, wavelength accuracy, stray light and resolution with performance verification measurements of independently certified NIST standards. Lunatic is ready when you are to get validated and make the move into QC.



Performance verification plate Holds certified pharmacopeia standards for UV/Vis verification



Put it on lockdown

GLP labs don't sweat it. Lunatic's software hooks labs up with 21 CFR Part 11 compliant features. We're talking password protection, electronic signatures, full audit trail – the whole package.

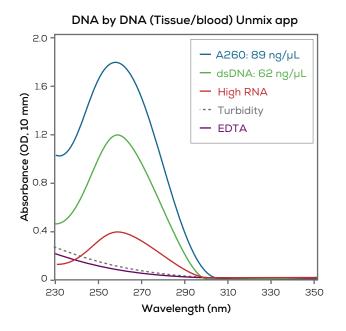
	Lunatic & Stur	nner Clien	t 21	LCFRp11	Administrator 👤	
etting	gs					
Force change password after (days)		60 Password needs to contain: V numbers				
		30	, assure the cases to contain.			
Maximum inactivity time (minutes)				upper case letters		
Maximum number of failed logins		5		V lower case letters		
Minimum characters in password		5		special characters		
Audit Trail		Category	Action	a		
		All 🔻	All	EXPERIMENTS INTEGRITY SAVE TO PDF		
			~ •			
1D 2019	Date 17/04/2020 10:45:49	User Administrator	Category User	Action	Details User login successful (Administrator)	
2019	17/04/2020 10:45:34	Administrator	System	Software start	Software start: Lunatic & Stunner Client	
2010	17/04/2020 10:45:10		System	Software shutdown	Software shutdown: Lunatic & Stunner Client	
2017	17/04/2020 10:44:57	Administrator	System	Securtiy settings modified	"Force change password after" changed from "90 days" to "60 days"	
2015	17/04/2020 10:44:37	Administrator	System	CRM info modified	Force change password after changed from 90 days to 60 days Absorbance CRM certified absorbances modified	
2013	17/04/2020 10:43:59	Administrator	System	PV criteria modified	"Absorbance Linearity minimum R square" changed from "0.000" to "0.9	
2013	17/04/2020 10:43:33	Administrator	System	CRM info modified	Absorbance CRM info concentration 1 modified: "Serial number" change	
	17/04/2020 10:43:31	Administrator	System	Add license	Seat license added (hardwareid: ********A01214*) which activates 21	
	17/04/2020 10:38:14	Administrator	User	User login	User login successful (Administrator)	
	17/04/2020 10:38:14	Aunimistrator	System	Software start	Software start Lunatic & Stunner Client	
2012 2011			System	Software shutdown	Software start: Lunatic & Stunner Client Software shutdown: Lunatic & Stunner Analysis	
2011 2010			Data	New experiment	Software shutdown: Lunatic & Stunner Analysis New experiment done on Fri, 20 Mar 2020 11:37:53, performed on S/N 4	
2011 2010 2009	17/04/2020 00:35:09	Administrator.		INCAN EXPERIMENT		
2011 2010	16/04/2020 00:35:09 16/04/2020 23:24:42 16/04/2020 22:41:18	Administrator Administrator	User	Userlogin	User login successful (Administrator)	

← в

BACK

Dig up your genomic's dirt

DNA and RNA samples can be freaking messy. Lunatic analysis software lets you see annoying impurities that classic A260 measurements alone mistake as your DNA or RNA. Ditch the time-sucking, dye-based prep and know right away if your samples are good to go.



Set it and forget it

Lunatic talks to robots. Hook it up with any liquid handler system and run your measurements completely hands-off with our API setup and keep more of your precious sample for the rest of your workflow.



Automated sample loading

Specifications

Lunatic instrument specifications			
Dimensions	37 cm W x 46 cm D x 33 cm H; 21 kg		
Operating voltage	24 VDC, 30 W (max)		
Connection	USB, TCP/IP (Service, SiLA)		
Light source	Xenon flash lamp		
Detectors	UV/Vis polychromatic spectrophotometer		
Approval	CE, FCC, CSA		
Wavelength range	230-750 nm		
Wavelength accuracy	≤400 nm: ±1 nm; ≥400 nm: ±2 nm		
Spectral resolution	Better than 2 nm (toluene in hexane)		
Absorbance precision (1 cm quartz cuvette)	<1 OD: ±0.005 OD st dev	1-2 OD: ±0.5% CV	
Absorbance accuracy (1 cm quartz cuvette)	<1 OD: ±0.01 OD	1-2 OD: ±1%	
Lunatic plate specifications	High Lunatic Plate	Lunatic Plate	
Application area	High concentration samples, typically proteins	Low concentration samples, typically nucleic acids	
Sample retention time	Up to 2 hours	Up to 2 hours	
Recommended sample volume	2 μL	2 μL	
Pathlength(s)	0.1 mm & 0.7 mm path	0.5 mm path	
Measurement time for full plate	~10 minutes	~5 minutes	
Measurement range: OD 10mm ng/µL dsDNA mg/mL ave protein mix	0.03-275 OD 10 mm 1.5-13750 ng/µL 0.03-275 mg/mL	0.03-40 OD 10 mm 1.5-2000 ng/µL 0.03-40 mg/mL	
Absorbance precision (10 mm pathlength)	<1 OD: ±0.01 OD st dev 1-200 OD: ±1% CV	<1 OD: ±0.01 OD st dev >1 OD: ±1.5% CV	
Absorbance accuracy (10 mm pathlength)	<1 OD: ±0.02 OD 1-200 OD: ±2%	<1 OD: ±0.02 OD >1 OD: ±4%	
Dimensions	8.55 cm W x 12.8 cm D x 1.21 cm H		
	96 (12 x 8 microplate format)		





Unchained Labs

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

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