

LUNATIC



LUNCHAINED
LABS

定量利器

Lunatic使得蛋白、DNA和RNA高通量定量变得非常简单。只需要2 μ L样品和10分钟，即可轻松完成96个样品的定量分析。任何样品直接上机检测，即便是高浓度样品，也无需稀释。Lunatic为您的生物制品和基因组样品进行精准的紫外/可见光定量：加样、上机、读值，三步搞定！



2 μ L样品

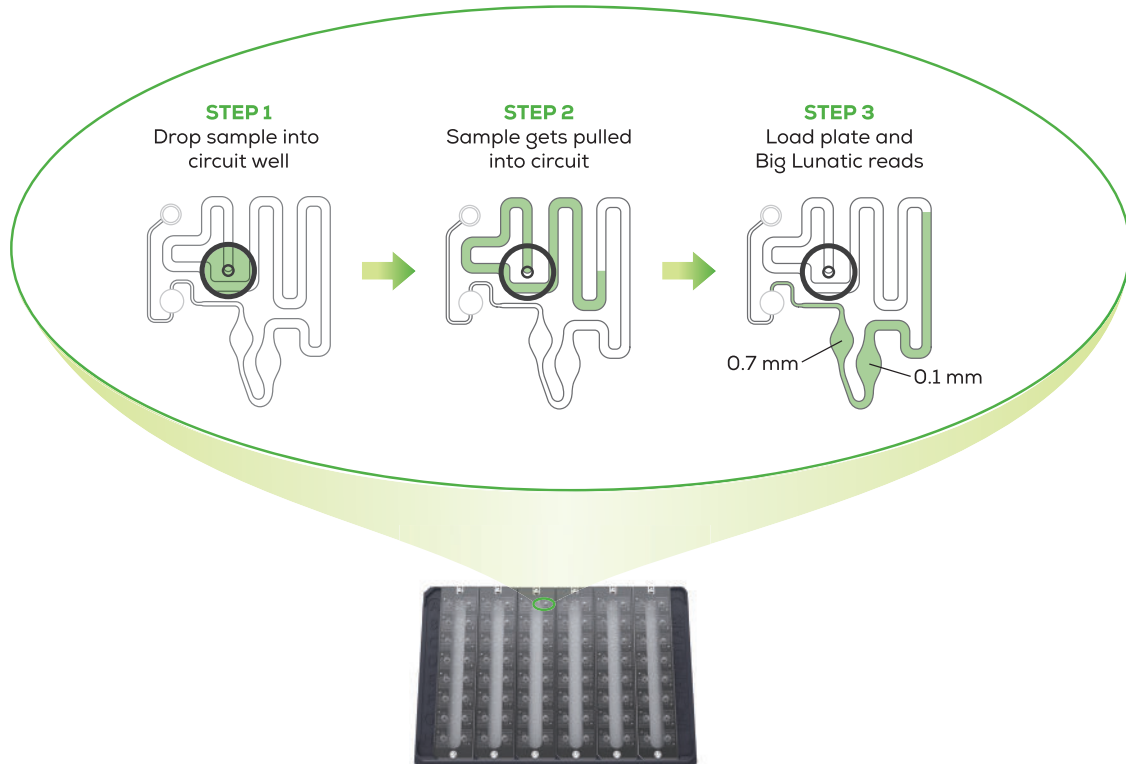
96通道

10分钟

孔板符合SBS标准

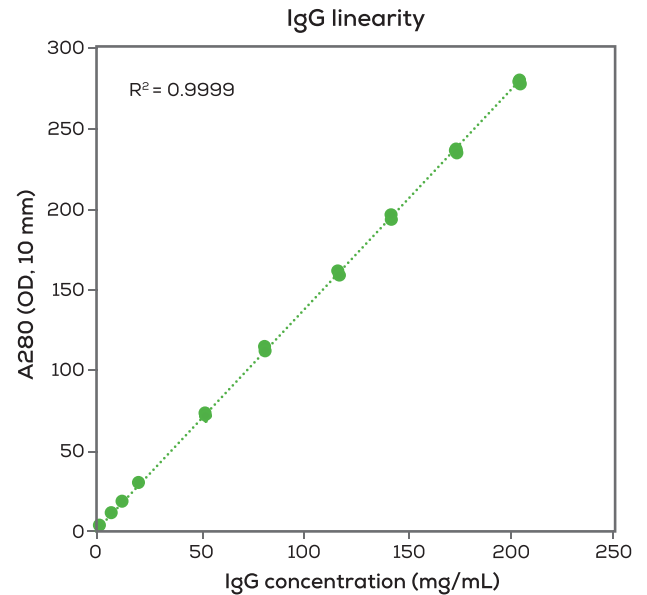
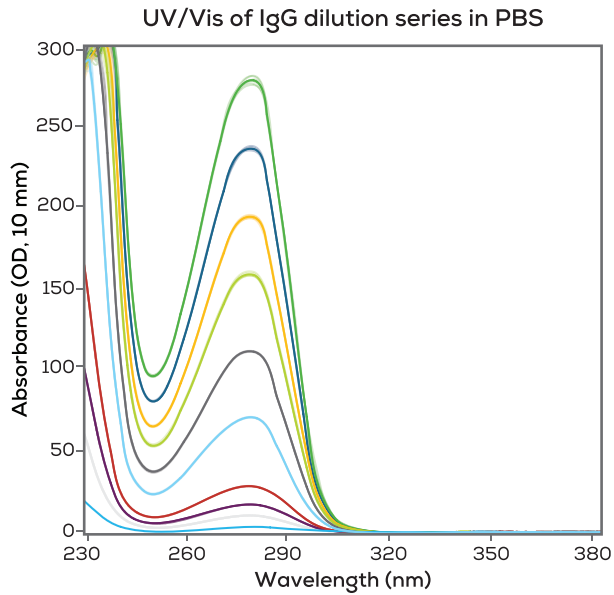
微流控，简单测

省去样品准备、检测孔清洁，不用担心样品交叉污染或者蒸发——样品能稳定地保存在Lunatic芯片中长达2小时。Lunatic检测板一次可检测96个样品，在10分钟内即完成检测。每个微流控检测单元有两个固定光程的检测池，动态范围宽，0.03–275 OD。您只需要简单加样，即可得到最靠谱的结果！



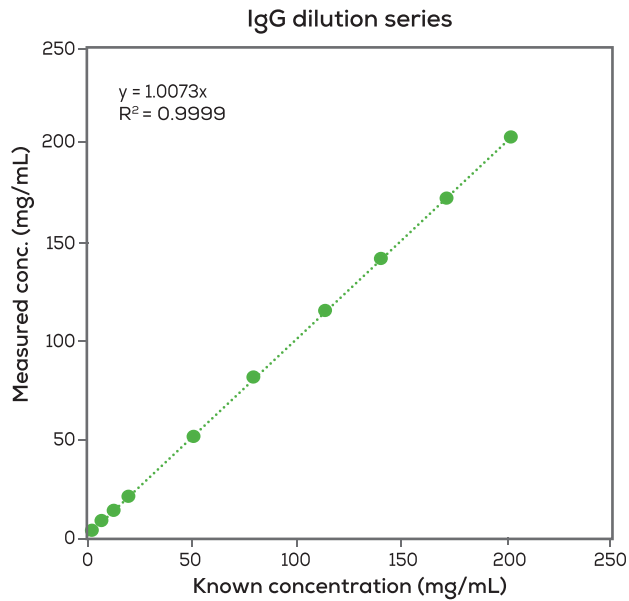
蛋白高浓度，定量也很酷

Lunatic是一款可以对生物制品进行高通量、高浓度定量分析的系统，检测范围0.02 mg/mL–200 mg/mL (mAb)。因此，不用稀释和计算，任何蛋白样品直接检测！也不用重复“检测–清洁–再检测”的单个样品检测模式。从现在开始，停止疯狂的重复，Lunatic让您从反复单调的检验工作中解脱出来。



超级赞的数据

Lunatic定量精准，重复性 $\leq 1\%$ ，准确性 $\leq 2\%$ 。通过两个固定光程检测池，无论对低浓度还是高浓度蛋白定量，均能得到精准性令人惊喜不已的数据。微升用量，高通量和精准的结果，Lunatic无疑是目前蛋白质定量的理想工具。



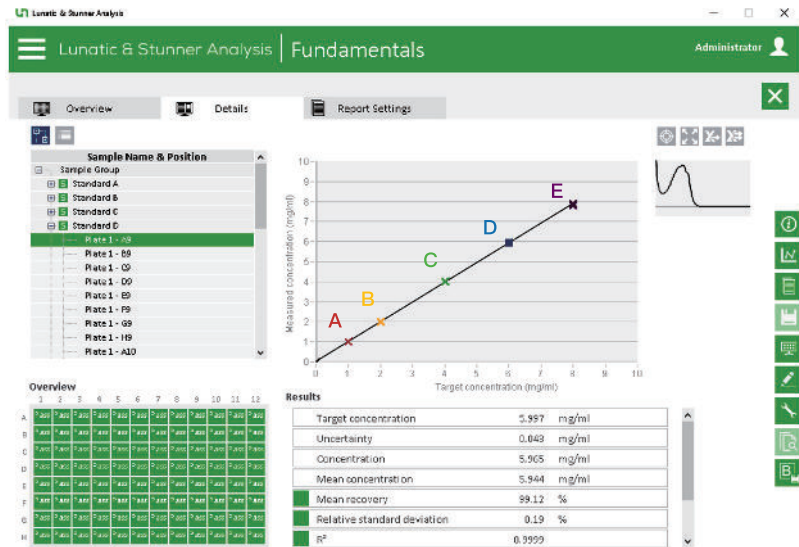
Known Conc. (mg/mL)	Average Conc. (mg/mL)	CV (%)
201.4	201.7	0.7%
169.9	171.1	0.7%
139.4	140.7	0.4%
113.1	115.0	0.6%
79.4	80.7	0.2%
50.2	51.2	0.2%
19.9	20.3	0.3%
12.1	12.2	0.2%
7.21	7.28	0.2%
2.35	2.37	0.2%

准确性，秀出来

Lunatic有惊人的准确性，如何验证？采用色氨酸标准品，任何时候都可以对蛋白定量相关的280 nm吸光度和20–225 OD范围内的结果准确性、精确性和线性轻松验证，让您对每个样品的定量数据都充满信心。

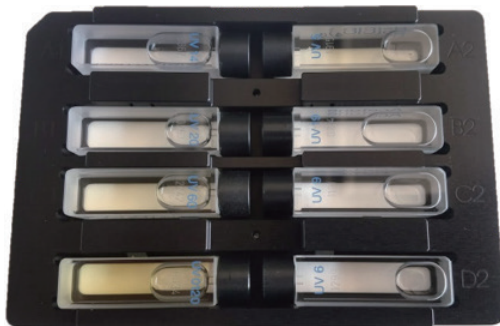


The Fundamentals
Certified tryptophan standards
OD range 20–225



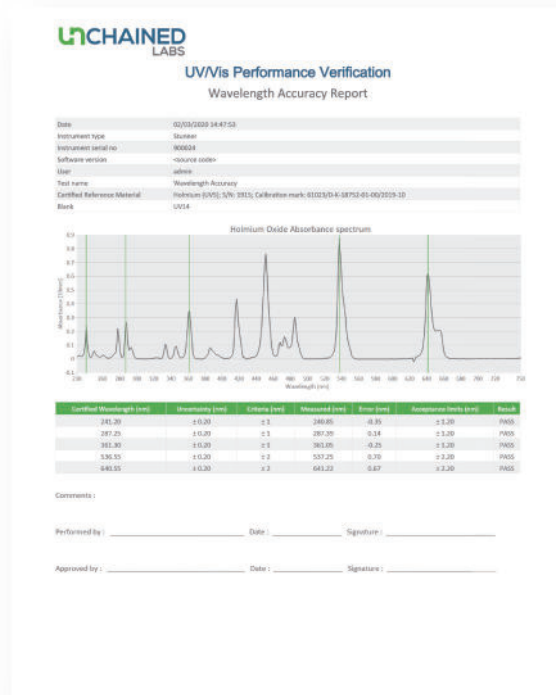
下游放行，准备好了

采用独立认证的NIST标准品对Lunatic进行性能验证检测，满足USP（美国药典）& Ph. Eur.（欧洲药典）对紫外/可见光定量设备在吸光度准确性、精准性、线性、波长准确性、杂散光和分辨率的要求。当您获得认证准备进入QC阶段时，Lunatic也已全副武装准备好了。



Performance verification plate

Holds certified pharmacopeia standards for UV/Vis verification



数据合规性

GLP实验室，无需担心！Lunatic软件提供选配程序，符合21CFR Part 11对GLP实验室的要求：密码保护、电子签名、全程审计追踪。

The screenshot displays the 'Lunatic & Stunner Client' software interface. The title bar shows 'Lunatic & Stunner Client' and '21CFRp11'. The user is logged in as 'Administrator'. The interface is divided into two main sections: 'Settings' and 'Audit Trail'.

Settings:

- Force change password after (days): 60
- Maximum inactivity time (minutes): 30
- Maximum number of failed logins: 5
- Minimum characters in password: 5
- Password needs to contain:
 - numbers
 - upper case letters
 - lower case letters
 - special characters

Audit Trail:

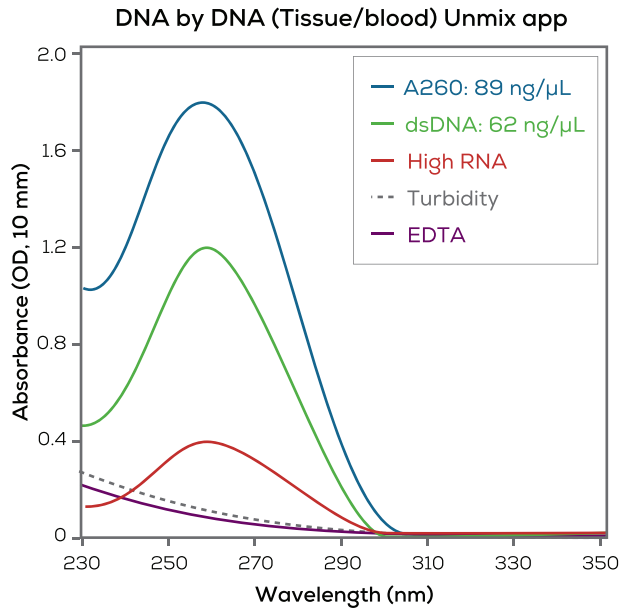
Category: All | Action: All | EXPERIMENTS INTEGRITY | SAVE TO PDF

ID	Date	User	Category	Action	Details
2019	17/04/2020 10:45:49	Administrator	User	User login	User login successful (Administrator)
2018	17/04/2020 10:45:34		System	Software start	Software start: Lunatic & Stunner Client
2017	17/04/2020 10:45:10		System	Software shutdown	Software shutdown: Lunatic & Stunner Client
2016	17/04/2020 10:44:57	Administrator	System	Security settings modified	"Force change password after" changed from "90 days" to "60 days"
2015	17/04/2020 10:44:28	Administrator	System	CRM info modified	Absorbance CRM certified absorbances modified
2014	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 10:43:31	Administrator	System	CRM info modified	Absorbance CRM info concentration 1 modified: "serial number" change
2012	17/04/2020 10:41:03	Administrator	System	Add license	Seat license added (hardwareid: "*****A01214") which activates 210
2011	17/04/2020 10:38:14	Administrator	User	User login	User login successful (Administrator)
2010	17/04/2020 10:37:16		System	Software start	Software start: Lunatic & Stunner Client
2009	17/04/2020 00:35:09		System	Software shutdown	Software shutdown: Lunatic & Stunner Analysis
2008	16/04/2020 23:24:42	Administrator	Data	New experiment	New experiment done on Fri, 20 Mar 2020 11:37:53, performed on S/N 4
2007	16/04/2020 22:41:18	Administrator	User	User login	User login successful (Administrator)

BACK

核酸样品杂质解析

DNA和RNA样本可能会含有多种杂质，干扰定量。Lunatic分析软件能让您看到在传统A260定量中被误算作DNA或者RMA的令人讨厌的杂质。放弃繁琐耗时且依赖染料的检测方法吧，Lunatic让您轻松、快速、全面地了解样品质量是否可以推进到下一阶段。



自动化定量

Lunatic和机器人亲密合作。将Lunatic与任何液体自动处理系统链接，通过API设置您可以完全实现“袖手旁观”的自动化定量，而且为工作流程其他环节节省宝贵的样本。

Automated sample loading



技术参数

Lunatic仪器参数		
仪器尺寸	宽37 cm x 深46 cm x高 33 cm, 21 kg	
工作电压	24V直流电, 30W (最大)	
端口	USB, TCP/IP (Service, SiLA)	
光源	闪烁氙灯	
检测器	紫外/可见光全光谱分光光度计	
认证标准	CE, FCC, CSA	
波长范围	230–750 nm	
波长准确度	≤400 nm: ±1 nm; ≥400 nm: ±2 nm	
光谱分辨率	小于2 nm (甲苯己烷溶液)	
光吸收精确度 (1 cm石英比色皿)	<1 OD: ±0.005 OD st dev	1–2 OD: ±0.5% CV
光吸收准确度 (1 cm石英比色皿)	<1 OD: ±0.01 OD	1–2 OD: ±1%
Lunatic plate技术参数		
	High Lunatic Plate	Lunatic Plate
适用范围	高浓度样品	低浓度样品
样品保留时间	长达2小时	长达2小时
推荐样品体积	2 µL	2 µL
光程	0.1 mm & 0.7 mm 光程	0.5 mm 光程
满板检测时间	~10 分钟	~5 分钟
检测范围: OD 10 mm ng/µL dsDNA mg/mL 蛋白	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
吸光度精确度 (10 mm光程)	< 1 OD: ±0.01 OD st dev 1–200 OD: ±1% CV	< 1 OD: ±0.01 OD st dev > 1 OD: ±1.5% CV
吸光度准确度 (10 mm光程)	< 1 OD: ±0.02 OD 1–200 OD: ±2%	< 1 OD: ±0.02 OD > 1 OD: ±4%
外形尺寸	宽8.55 cm x 长12.8 cm x 厚1.21 cm	
样品通量/板	96 (12x8) 个	



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