



Starlight™

LUCENCE

An automated saliva/ sputum sample solubilization platform to improve molecular diagnostic accuracy

Reproducible and Robust Saliva Solubilization Protocol

Saliva / sputum solubilization is important to achieve sensitivity in molecular diagnostics for diseases such as COVID-19. Saliva/ sputum samples are properly homogenised to ensure specimen integrity, preventing erroneous test results and increasing test accuracy.

Minimal pre-processing hands-on time

Time taken to prepare samples is reduced by 83% (24 tubes in 5 mins), freeing up technicians for downstream sample processing whilst reducing risk of harmful Hand-Arm Vibration (HAV) syndrome risks to medical lab technicians involved in saliva/ sputum processing

Modular platform for simple workflow integration

High throughput solution can be easily incorporated into existing laboratory workflows to increase testing capacity for mass testing and screening in large populations.

Technical Specifications

System Components	Core unit: Barcode scanner, decap/recap arm, dispenser, internal vortex Control Unit: PC, monitor, keyboard
Sample Barcode Types	1D, 2D, Postal Digimarc, Stacked and Composite codes
Sample Throughput	288 tubes /hour
Dispensing Speed	250 µl/ sec (±3%), single channel
Vortex	1200 rpm for 5s per tube
Rack Format*	24-format stainless steel rack 168 x 100 x 43 mm
Tube Compatibility* (L x Ø)	60 x 16 mm
Exhaust System	H14 HEPA filter: 99.99% at 0.3 µm Exhaust velocity: 570 CMH (0.43 m/s)
Control Unit	PC: Windows 10, Intel® Xeon® E3 Processor, 8.00GB RAM Monitor: 17" colour monitor Keyboard and mouse: Desktop MK120
Physical Dimensions (L x W x H)	Core unit: 1152 x 800 x 1082 mm Control unit: 600 x 400 x 770 mm
Weight	Core unit: 140 kg Control unit: 45 kg
Electrical Requirements	Power requirements: 220~240 VAC Frequency: 50 Hz
Operating conditions	Temperature: +5°C to +30°C Humidity: ≤ 80% Noise Output: 50-55 dB

*Customisation available. Inquire for more details

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