halo labs

aura

halo labs

Aura
HIGH-THROUGHPUT, LOW VOLUME
SUBVISIBLE PARTICLE ANALYSIS

5 µL – 10 mL Sample Volume
96 Sample Automation
1 Minute Per Sample

ABOUT BACKGROUNDED MEMBRANE IMAGING (BMI)

BMI is a better way of measuring particles on membranes: First, a background image of the membrane is taken. Next, samples are vacuumed through the filter and subsequently re-imaged. The background and sample images are processed together in order to remove the membrane texture and identify particles.

PRODUCT SPECIFICATIONS

Technology	Backgrounded Membrane Imaging (BMI)
Imaging area	24.6 mm^2
Illumination modes	Brightfield illumination (LED 455 nm) and side illumination (LED 465 nm)
Sampling efficiency	100%
Minimum sample volume	5 µL (assay dependent)
Resolution	1.0 pixel/µm
Particle size range (detection and quantitation)	>1 µm
Maximum particle concentration (1.6 µm particle size)	>3,000,000 particles/mL
Maximum protein concentration	250 mg/mL
Membrane pore size	0.4 µm or 0.8 µm
Throughput	1 minute per sample
Sample format	96-well filter membrane plate
Refractive index impact	None (imaging in air)
Cross-contamination	None (zero carryover)
Air bubbles	Not measured (filtered away)
Robotic compatibility	Yes
Software	Particle VUE 3.0 all-in-one software suite (image catpure and analysis)
Operating system	Windows 10
Power	Universal input (90-264 Vac)
Instrument dimension	13.5 in x 18 in x 13 in
Instrument weight	56 lbs