Aura+

REALIZE THE PROMISE OF YOUR THERAPEUTIC

Capsid, Protein, & Cell ID
Formulations Development
Cell, Protein, & Gene Product Quality
Application Flexibility
Ultralow Volume Analysis

About Aura+

Aura+™ meets your particle analysis and product quality needs for protein, cell, and gene therapies. With one system, you can detect, count, and characterize biologic aggregates, visible particles, and subvisible particles for product quality measurements – with just 5 µL of sample! It also provides both 4x and 20x objectives for high powered microscopy imaging. Aura+ specifically IDs multiple biological targets in the same sample, helping you develop your therapeutic without costly complex machine learning libraries or time-consuming manual image analysis.

Aura+ combines Backgrounded Membrane Imaging (BMI) with three channels of Fluorescence Membrane Microscopy (FMM) to give you aggregate data without any clogging concerns or the need to clean between measurements. BMI delivers count, size, and morphological information while FMM differentiates between cellular, protein, or extrinsic aggregates in your sample. Added bonus? FMM can also be used for cell viability and cell type differentiation assays or to quantitate and distinguish which polysorbates in your formulation are degrading. Quickly develop safe, effective, and stable therapeutics with Aura+.

Product Specifications

Technology	Backgrounded Membrane Imaging (BMI) and Fluorescence Membrane Microscopy (FMM)
Imaging area	24.6 mm^2
Optics	4x and 20x objectives
Sampling efficiency	100% (4x objective)
Brightfield illumination (BF)	LED 455 nm
Side scatter illumination (SIMI)	LED 465 nm
Fluorescence illumination (FL)	LED
FL Channel 1	Ex: 440 nm Em: 500 nm
FL Channel 2	Ex: 376 nm Em: 440 nm
FL Channel 3	Ex: 482 nm Em: 524 nm
Minimum sample volume	5 µL (assay dependent)
Resolution	1.0 pixel/µm
Detectable size range (min)	>1 µm (ECD)
Detectable size range (max)	<5 mm (ECD)
Brightfield read time (BMI)	1 minute/sample
Fluorescence read time (FMM)	15 seconds/sample
Sample format	96-well filter membrane
Membrane type 1 (Brightfield)	White – Polycarbonate 0.4 µm or 0.8 µm pores
Membrane type 2 (Fluorescence)	Black – Polycarbonate 0.4 µm pores
Software	Particle VUE 4.x all-in-one software suite (image capture and analysis)
Robotic compatibility	Yes
Operating system	Windows 10
Power	Universal input (90 – 265 Vac)
Instrument dimensions	13.5 in x 18 in x 13 in
Instrument weight	57 lbs