Aura CL

**HIGH-THROUGHPUT, LOW VOLUME
CELL, VIRAL CAPSID, AND PROTEIN
AGGREGATE QUANTITATION**

Cell Aggregate ID
Protein Aggregate ID
Fluidics-Free
96-Well Format

About Aura CL

Aura CL® is the first system designed to detect, count, and characterize cellular aggregates and subvisible particles for product quality measurements in cell therapy applications. It also makes it super simple for you to specifically ID cell from non-cell aggregates right out of the box, without having to spend hours sorting through images or needing complex machine learning libraries.

The Aura CL combines Backgrounded Membrane Imaging (BMI) with two channels of Fluorescence Membrane Microscopy (FMM) to give you aggregate data without any clogging concerns or the need to clean between measurements. Get count, size, and morphological information using BMI with full-well imaging and 100% sampling efficiency or differentiate between cellular, protein, or extrinsic aggregates using FMM to quickly know what's in your sample. FMM can also be used for cell viability and cell type differentiation assays to further understand your cell therapy product.

Product Specifications

Technology	Backgrounded Membrane Imaging (BMI), Fluorescence Membrane Microscopy (FMM), and Side Illumination Membrane Imaging (SIMI)
Imaging area	24.6 mm^2
Optics	4x and 10x 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
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)	30 seconds/sample
Sample format	24-well or 96-well filter membrane plate
Membrane type 1 (Brightfield)	White – Polycarbonate
Membrane type 2 (Fluorescence)	Black – Polycarbonate
Software	Particle VUE 5.x all-in-one software suite (image capture and analysis)
Robotic compatibility	Yes
Operating system	Windows
Power	Universal input (90–265 Vac)
Instrument dimensions	13.5 in x 18 in x 13 in
Instrument weight	57 lbs