aura GT

halo labs

Aura GT

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

Capsid Aggregate ID
DNA Leakage
Protein Aggregate ID
Fluidics-Free
5 µL volume

About Aura GT

Aura® GT is the first system designed to detect, count, and characterize capsid aggregates and subvisible particles for product quality measurements in gene therapy applications. It also makes it super simple for you to specifically ID capsid from non-capsid aggregates right out of the box and determine if DNA leakage is the source of aggregation.

Aura GT 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.

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 objective
Sampling efficiency	100%
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: 488 nm Em: 550 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
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