



Aura PTx

LOW VOLUME FORMULATIONS
CHARACTERIZATION, EXCIPIENT AND
PROTEIN AGGREGATE QUANTITATION

Polysorbate Degradation
Protein Aggregate ID
Formulations Development
High-throughput

About Aura PTx

Aura® PTx is the first and only system designed to detect, count, and characterize formulation excipients including polysorbate and related degraded products, and subvisible particles for product quality measurements in protein therapy applications. It also makes it super simple for you to specifically ID protein from non-protein aggregates right out-of-the-box, without having to spend hours sorting through images or needing complex machine learning libraries. With the 96-well, high-throughput platform, Aura PTx enables comprehensive formulations screening and proper design of experiments with low sample volume to ensure product stability and safety.

Aura PTx combines Backgrounded Membrane Imaging (BMI) with two channels of Fluorescence Membrane Microscopy (FMM) to give you aggregate data without 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: 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)	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