



# 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

|   |  |
|---|--|
| <b>Technology</b>                       | Backgrounded Membrane Imaging (BMI) and Fluorescence Membrane Microscopy (FMM) |
| <b>Imaging area</b>                     | 24.6 mm <sup>2</sup>   |
| <b>Optics</b>                           | 4x objective   |
| <b>Sampling efficiency</b>              | 100%   |
| <b>Brightfield illumination (BF)</b>    | LED 455 nm   |
| <b>Side scatter illumination (SIMI)</b> | LED 465 nm   |
| <b>Fluorescence illumination (FL)</b>   | LED  |
| <b>FL Channel 1</b>                     | Ex: 440 nm Em: 500 nm  |
| <b>FL Channel 2</b>                     | Ex: 482 nm Em: 524 nm  |
| <b>Minimum sample volume</b>            | 5 µL (assay dependent)   |
| <b>Resolution</b>                       | 1.0 pixel/µm   |
| <b>Detectable size range (min)</b>      | >1 µm (ECD)  |
| <b>Detectable size range (max)</b>      | <5 mm (ECD)  |
| <b>Brightfield read time (BMI)</b>      | 1 minute/sample  |
| <b>Fluorescence read time (FMM)</b>     | 30 seconds/sample  |
| <b>Sample format</b>                    | 96-well filter membrane  |
| <b>Membrane type 1 (Brightfield)</b>    | White – Polycarbonate 0.4 µm or 0.8 µm pores                                   |
| <b>Membrane type 2 (Fluorescence)</b>   | Black – Polycarbonate 0.4 µm pores   |
| <b>Software</b>                         | Particle VUE 4.x all-in-one software suite (image capture and analysis)        |
| <b>Robotic compatibility</b>            | Yes  |
| <b>Operating system</b>                 | Windows 10   |
| <b>Power</b>                            | Universal input (90 – 265 Vac)   |
| <b>Instrument dimensions</b>            | 13.5 in x 18 in x 13 in  |
| <b>Instrument weight</b>                | 57 lbs   |