

## Aura PTx System

### Low volume formulations characterization, excipient and protein aggregate quantitation

Polysorbate Degradation, Protein Aggregate ID, Formulations Development, High-throughput

Aura™ PTx System 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 System enables comprehensive formulations screening and proper design of experiments with low sample volume to ensure product stability and safety.

Aura PTx System 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 <sup>2</sup>   |
| 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 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   |

# Waters™

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