

# SpectroQ The first DLS/Imaging-Plate Hotel



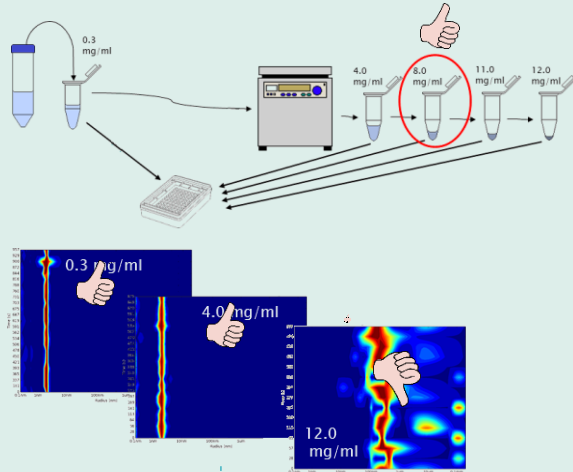
The **SpectroQ** combines for the first time the rational analysis of sample quality by Dynamic Light Scattering (DLS) with the identification of your crystals. The system offers unmatched versatility by combining various hotel sizes with a fully automated workflow for DLS and bright light and UV imaging.

**Aggregation State Analysis – Stability Analysis – Temperature Stability Check - Crystal Imaging - UV Automated Mode – Manual Mode – Unmatched Versatility**

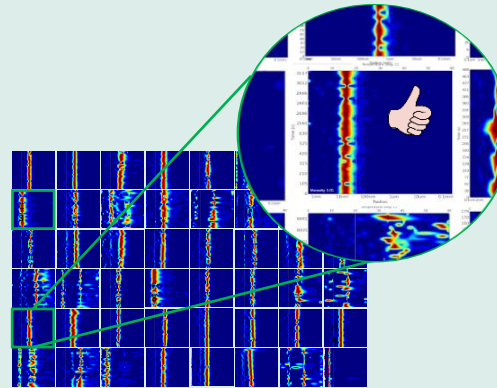
# SpectroLight 600 - Controlled sample quality at all stages

In situ DLS enables comprehensive sample analysis at all stages of a preparation pipeline. Crucial steps downstream from purification can be monitored and sample integrity is almost guaranteed.

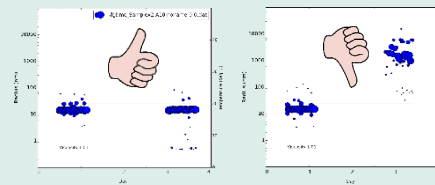
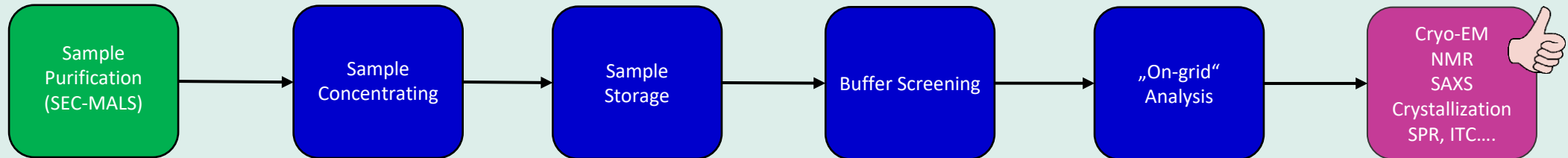
Controlled prevention of over-concentration



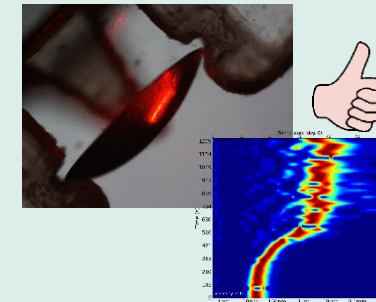
Success in formulation/buffer condition screening by visualisation of the invisible



Qualified samples for further analysis

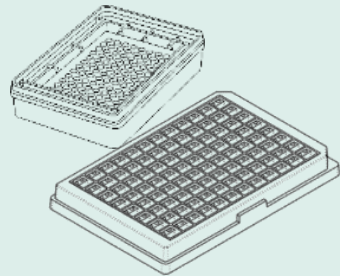


Long term stability analysis and freezing effects monitoring



Analysis of the sample/grid-surface response

# Key features of SpectroQ and SpectroLight 600



Utilisation of Standard Plates

## Standard sample containers

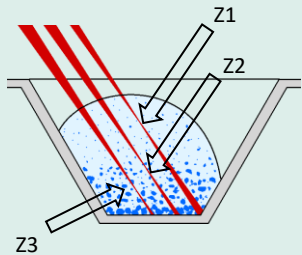
(like SBS plates, capillaries or smaller plates) no cuvettes, no special consumables, no cleaning

## Plate Hotel

Available with various plate capacities and temperature regulated interior

## Minimal sample volume – 50 nl

Use an aliquot of your sample for quality check. Arbitrary choice of the sample volume down to 50 nl



Measurement at different positions Z1,Z2,Z3

## 3D positioning within the sample

Measure in different heights or xy to access inhomogeneous samples

## Automated condition screening (pH, detergents, buffer)

More insights in well-being of your sample with only 9.6  $\mu$ l or less for a full plate with 96 conditions. Plates can be repeatedly used to continue measurements even over several weeks

## Fast bright light and UV-Imaging

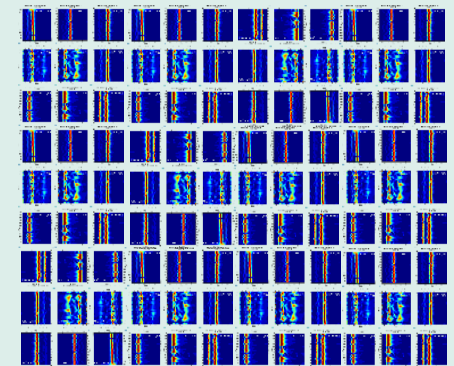
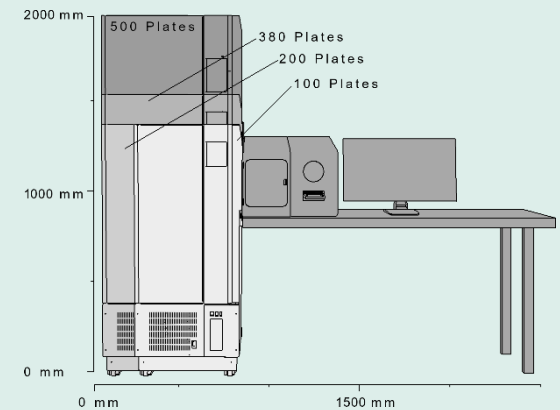
Fully fledged fast imaging system with various illumination capabilities



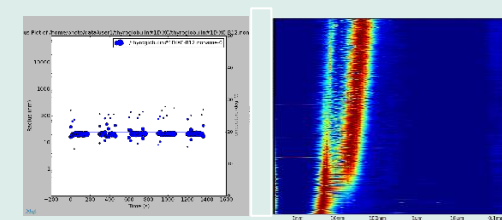
Bright light      UV imaging

It's simply fun to measure!

## SpectroQ

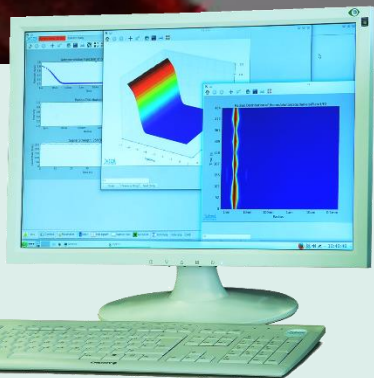


Screening of 96 conditions



160 h of interval and continuous series of *in situ* DLS measurements

# SpectroLight 600 - Quality control for Cryo-EM



Dynamic Light Scattering is the easiest way to control your sample quality on its way from purification to the final step just before vitrification. It measures automatically in tiniest droplets (~50 nI) the hydrodynamic radius, the polydispersity and gives you the aggregation state of your sample. So concentration, buffer screening and long term stability can be controlled without wasting your sample.

With its unique set up the SpectroLight 600 can even measure directly on a grid to assure sample quality just before the cryo-EM imaging.