

Spotlight on nanoDDS and Gene Therapy



Light Scattering for the analysis of
nanoparticles and viral vectors.

Tuesday, October 10th, 2023 • Baden-Dättwil •
Switzerland

Agenda

09:45 h	Welcome and Introduction
10:00 h	Theory and instrumentation: SEC- MALS, AF4-MALS and DLS Theoretical Background of Multi-Angle Light Scattering (MALS) and Dynamic Light Scattering (DLS)
10:30 h	LNP CQAs quantified by SEC/FFF-MALS: Case Study Examples for an analysis of LNPs for size distribution, molar mass, encapsulation efficiency
11:00 h	Analysis of LNPs by DLS, PALS and RT-MALS Examples for the analysis in batch (cuvette and microwell plates) and PAT-applications
11:30 h	Coffee Break Get-together with snacks and coffee
11:45 h	Beyond LNP: Quality Attributes and Extended Characterization for viral vectors – AAV and Lentivirus How Light Scattering can be used to better characterize viruses for size and payload
12:15 h	Lunch break Sit down for lunch and socialize
13:15 h	How to quantify LNP CQAs by SEC-MALS and LNP Analysis in ASTRA What is the general workflow for a sample analysis with the Wyatt software?
13:45 h	Software Session 1: LNP analysis How is the data analyzed for a representative LNP-sample?
14:30 h	Software Session 2: AAV analysis How can we get the most out of a SEC-MALS run for an AAV?
15:15 h	Closing Remarks and Q&A Feedback and questions are welcome
