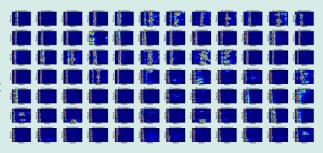


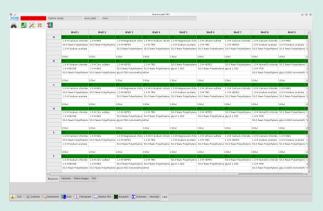
Protein Buffer Screening

Screening for suitable buffer components is a widely used method for protein formulation. Many liquid handling systems are available enabling highly automated dispensing steps, required for screening on multiple buffer conditions on a protein. Merely, the identification of which buffer supports the solubility of a protein remains relatively underdeveloped. Since chromatography and electrophoresis techniques, all are invasive detection methods and cannot be applied in situ on 96 samples simultaneously. Even state-of-the-art DLS-Systems are mostly incapable to detect protein aggregation states *in situ*. In contrast to that, SpectroQ is an *in situ* DLS unit. Therefore it is a highly suitable tool for buffer condition scoring.

Buffer Identification at a Glance is enabled by an especially designed plot format that allows one to spot the few "good" buffer conditions out of 96 wells immediately. Since DLS is a direct method providing an output of absolute particle sizes, such plots do not require the same level of interpretation as indirect reading output.

Allocation of Buffer Conditions is based on SQL-Data based data management. Since data allocation is of crucial importance, background information and measurement data are centralized. This allows direct and quick access, comfortable export of single wells or complete datasets.





Multiple plates Management: Since SpectroQ is a fully automated plate hotel system, a user can handle many samples in many plates and keep a chronologic order with ease. Software interfaces provide easy access to meta information hotel assignments and measurement data.

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