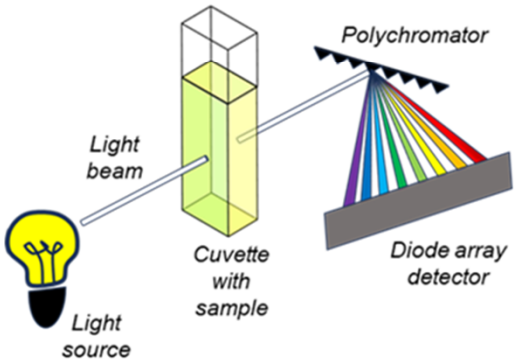
Classical UV/Vis Absorption Spectroscopy for Characterization of Biopharmaceuticals

Spectroscopic methods utilizing absorption of UV/Vis light are an essential part of the characterization of all protein and nucleic acid molecules with pharmaceutical application. In these techniques characteristic functionalities of the analyte (e.g., aromatic amino acid side chains in proteins, nucleobases in nucleic acids.) absorb light of a specific wavelength in a quantitative manner.

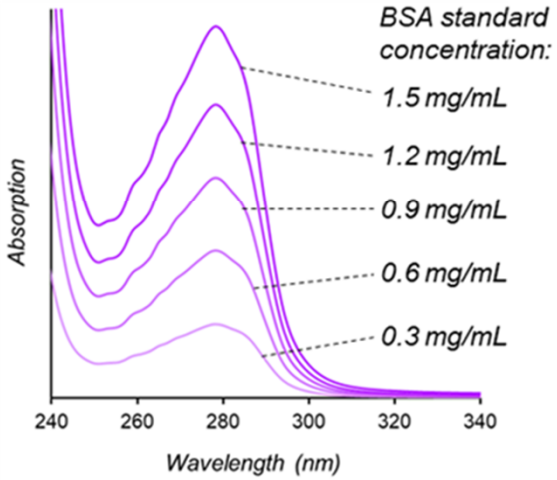
Instrument setup

The method is based on measurement of the light at a specific wavelength absorbed by the sample as in the diode array detector UV/Vis spectrometer setup shown below.

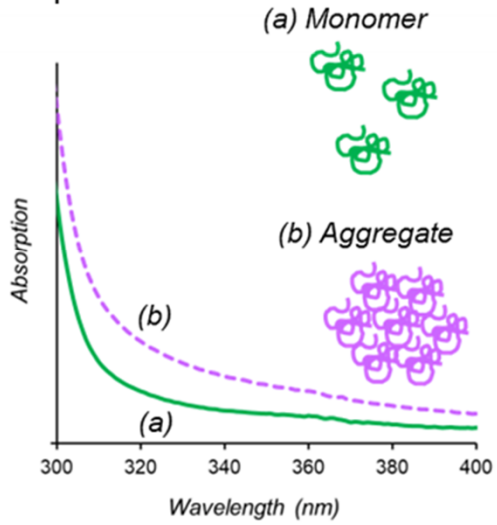


Applications

Concentration for release and stability



Aggregation index of peptides and proteins



Target molecules

- Proteins
- Peptides
- Nucleic acids

Why set up your UV/Vis absorption method at Solvias?

- State-of-the-art GMP-qualified equipment, including two variable pathlength devices for direct concentration measurement (SoloVPE)
- Extensive experience with setting up and validation of UV/Vis methods for pharmaceutical applications
- Stability studies can be performed directly in house

For additional information please contact: info@solvias.com