

Calibration lines

All calibration experiments were performed in triplet and the average values were used to plot the corresponding calibration lines.

i. BSA concentration calibration line

A calibration line was made for the BSA concentration using the UV detector of the AKTA pure chromatography system (Figure 1).

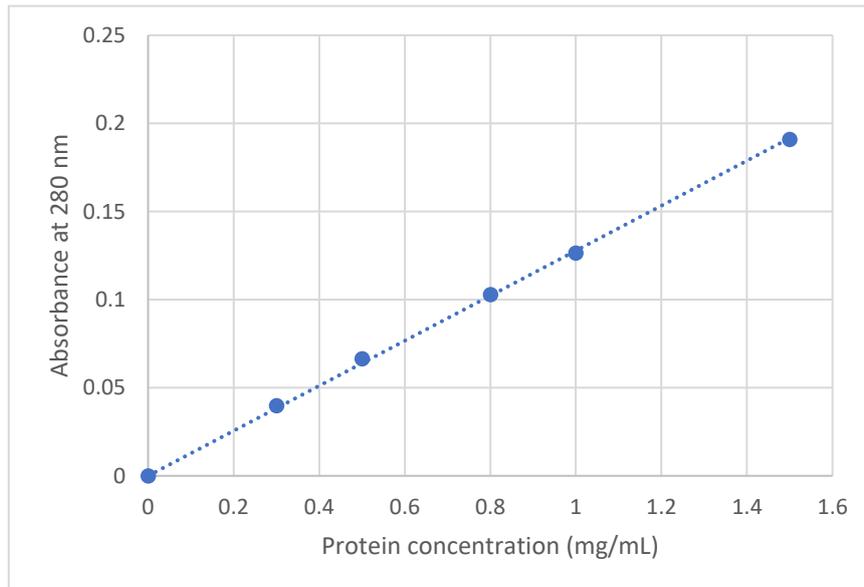


Figure 1: Measured absorbance at 280 nm as a function of the BSA concentration.

The calibration line provides the following correlation:

$$\text{Absorbance (mAU)} = 0.1277 * \text{Protein concentration} \left(\frac{\text{mg}}{\text{mL}} \right)$$

ii. Salt concentration calibration line

A calibration line was made for the NaCl concentration, to be able to determine the salt concentration in a solution. Each experiment was performed in triplicate (Figure 2).

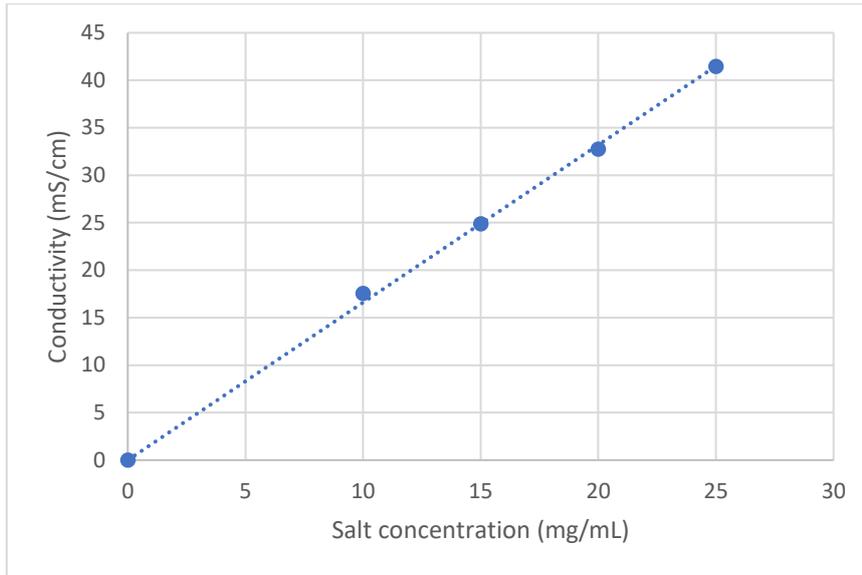


Figure 2: Measured conductivity as a function of the salt concentration using the AKTA pure system.

The calibration line provides the following correlation:

$$\text{Conductivity} \left(\frac{mS}{cm} \right) = 1.6596 * \text{Salt concentration} \left(\frac{mg}{mL} \right)$$