## Roti®-Nanoquant (for protein concentration estimation)

- Preparation of the work solution
  - ♦ 20mL Roti®-Nanoquant (5xconc.)+80mL ddH<sub>2</sub>O
  - ♦ Usable for a week at room temperature
- Preparation of the Eich row:
  - $\Diamond$  Prepare X different dilutions of BSA ( from 1 µg/mL to 100 µg/mL )
  - ♦ Use the following pipette scheme:

BSA (μg/mL )	μL out of higher concentrations	μL ddH₂O
0	-	200
1	20 μL out of 10 μg/mL	180
2.5	50 μL out of 10 μg/mL	150
5	100 μL out of 10 μg/mL	100
10	40 μL out of 100 μg/mL	360
25	50 μL out of 100 μg/mL	150
50	100 μL out of 100 μg/mL	100
75	150 μL out of 100 μg/mL	50
100	200 μL out of 400 μg/mL	600

## • Fill the cuvettes:

♦ Zero value: 200 μL ddH<sub>2</sub>O + 800 μL working solution

♦ Eich row: each 200 μL of the standard +800 μL working solution

♦ Samples: each 200 µL +800uL working solution

♦ Reference: 1000 µL ddH<sub>2</sub>O

♦ Mix all of the cuvettes gently by inverting

## Measurement:

- ♦ Measure all OD<sub>590</sub> values of all cuvettes against the reference
- ♦ Measure all OD<sub>450</sub> values of all cuvettes against the reference

## • Evaluation:

- ♦ Fill in the quotient of OD<sub>590</sub>/OD<sub>450</sub> into a graph.
- ♦ Protein concentrations of your samples can easily be read off the eich curve

From: Roth

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