Purification of Lenti-Cas9 and Lenti-Cpf1, and secreted Cas9 and Cpf1

- pCAGGs-sigseq-Cas9-histag:
 - Whole cell lysate
 - Purification from the medium
- pCAGGs-sigseq-Cpf1-histag:
 - Whole cell lysate
 - o Purification from the medium
- Lenti-Cas9:
 - o Whole cell lysate
- Lenti-Cpf1:
 - o Whole cell lysate

Ni-Nta bead protein extraction of medium of secreted cas9/cpf1

- 30 ul Ni beads in 1,5 mL epp
- Add 1 mL media.
- plate rocker for 3 hours
 - o Preheat hotplate
- @ 800 g 1 min
- · remove supernatant
- wash with 1 mL P1 buffer
- @ 800 g 1 min
- remove supernatant
- add 50 ul sample buffer (laemmli sample buffer with 2-ME, 1:9)
- boil sample: 98°C hot plate 3 min, vortex and 98°C hot plate 3 min. @ max speed 3 min and transfer supernatant to a new tube
 - No nanodrop!
- store at -20°C for protein gel analyses

Whole cell lysate

- Preheat heatblock to 98 degrees Celsius
- Wash cells with PBS
- Add 250 uL 1x laemmli loading dye (probably needs to be diluted to 1x beforehand!
 And you need to add 2 beta mercaptoethanol (1:10) To each well, this will lyse them
 and it might be very viscous
- Transfer to 1,5 mL tube, 98°C hot plate 3 min, vortex and 98°C hot plate 3 min.
- Centrifuge max speed 3 min and transfer supernatant to a new tube
 - After this point you could store the 1,5 mL tubes in the fridge, to use them the next day (or store in freezer for longer storage)