

Extraction and measurement of lycopene from *E.coli*

- Cultivate cells at 30°C for approximately 16 to 24 hours in LB-media
- Harvest the cells by centrifuging the culture at top speed for 5 minutes
- Transfer the pellet into a 1.5 mL reaction tube
- Add 450 μL of 100 % acetone (clear)
- Resuspend the pellet and vortex at top speed for 1 minute
- Centrifuge the suspension at top speed for 5 minutes
- Transfer 400 μL of the lycopene-acetone solution (now orange) into 400 μL of ddH₂O
- Transfer 200 μl to a 96-well microtiter plate
- Use 1:1 acetone-ddH₂O as blank and measure the absorption at 474 nm