03_03 EDTA Inactivation of TdT Reaction

FREITAG, 14.5.2021

Goal-Setting

- Inactivate TdT reaction through addition of EDTA
- Do NOT use EDTA inactivation, if a PCR should be done with the sample
    - EDTA inhibits the DNA Polymerase!

Terms / abbreviations

- EDTA = Ethylenediaminetetraacetic acid
- TdT = Terminal deoxynucleotidyl transferase

Risk areas

Hazard symbols

Required materials and / or information

- 0.2 M EDTA, Sigma-Aldrich
    - It was provided by an employee, because its production is labour intensive
    - On the bench in the Extension Lab
- Samples

Templates, devices, software

- Pipettes, Eppendorf

Preliminary work

- 03_01 Thermofisher Protocol for TdT Tailing Reaction
- 03_01 NEB Protocol for TdT Tailing Reaction

Operation

1. Final EDTA concentration should be 5 mM for inactivation
2. Pipette 10 µL of 0.2 M EDTA to 50 µL of sample in which the TdT shall be inactivated
    a. Attention: If only 0.1 M EDTA is available, pipette 20 µL instead
    Update 30.06.2021: if 0.25 M is available - use 8 µL of 0.25 M EDTA for 50 µL

Disposal

- None

Troubleshooting

- None

Follow-up work

- 01_02 Sample Preparation for Gel Electrophoresis
- If materials are empty care about new order