

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



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