

01_02 Sample Preparation for Gel Electrophoresis

FREITAG, 14.5.2021

Goal-Setting

- Proper preparation of samples for gel electrophoresis

Terms / abbreviations

- None

Risk areas

- Always wipe surfaces with alcohol if something is spilled

 Hazard symbols




Required materials and / or information

- Chemicals:
 - Samples
 - 6x TriTrack Loading Dye, ThermoFisher
 - Update 10.06.-28.06.:** 2x RNA Loading Dye, ThermoFisher
 - Update 02.09.:** 6x TrackIt Cyan/Yellow Loading Buffer, ThermoFisher
- Materials:
 - PCR Tubes, Sarstedt
 - Pipettes, Eppendorf
 - Trash bags, Th. Geyer GmbH & Co. KG

Templates, devices, software

- None

Preliminary work

-  [01_01 Agarose Gel Preparation](#)
- Designing sample setup for gel electrophoresis and get samples ready (e.g. thawing, or taking out of fridge)

Operation

- Add 1 volume 6x TriTrack Loading Dye or 6x TrackIt Cyan/Yellow Loading Buffer to 5 volumes sample
OR
 - Add 1 volume 2x RNA Loading Dye to 1 volume sample
1. Mix by vortex/pipette up and down
 2. Use the centrifuge to take down the Loading Dye (optional)
 3. Pipette carefully as the Loading Dye is very viscous and sticks to the pipette tip

Disposal

- Autoclave trash bags, discard in S1 waste

Troubleshooting

- None

Follow-up work

- [01_03 Performing Agarose Gel Electrophoresis](#)
- [02_02 Performing PAA Gel Electrophoresis](#)