

# 01\_02\_Sample-preparation-for-gel-electrophoresis

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## 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](#)