

Workflow: TapeStation – Genomic center

1. Random
2. samples preparation
3. TapeStation
4. Software

Random: preparation before start



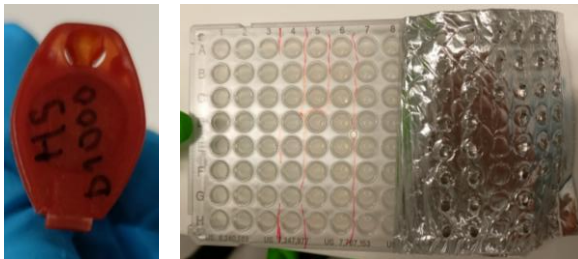
Quibit + Q. Eppendorf on the shelf

Workflow: sample preparation



High sensitivity Sample Buffer and High Sensitivity D1000 screenTape

Plate



vortex
for while



spin – don't forget balance



just random, I did (30s; 1000 rcf)

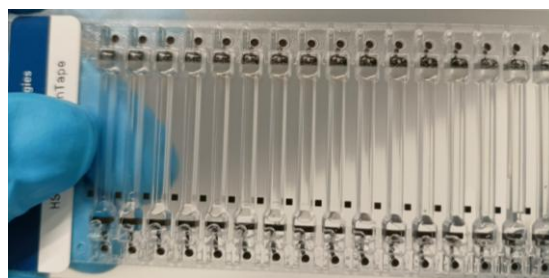
Strips



vortex on bench next to PC
sometimes already set to 1 min

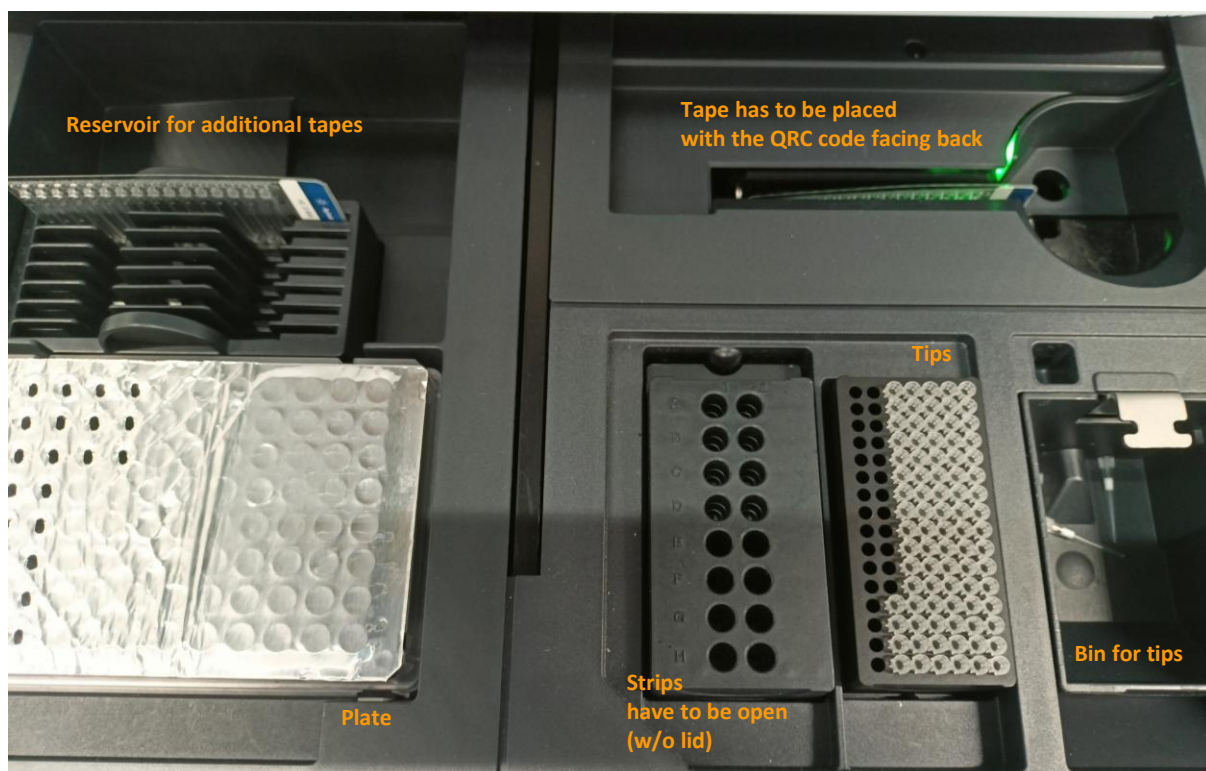
spin down
on the desk centrifuge

Workflow: TapeStation



High Sensitivity D1000 screenTape

- has to be placed with the QRC code facing back
- can be partially use (it is visible) – TapeStation will automatically read
- if needed more Tapes – place in reservoir – will be automatically replaced

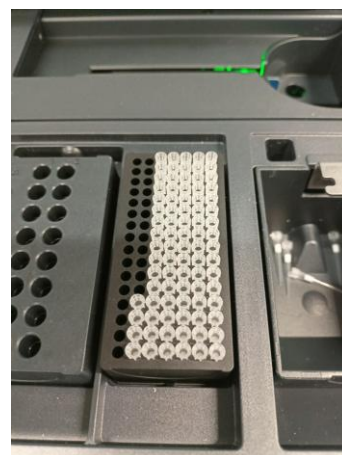


Tips

- not necessary to use full box just find some around with sufficient amount

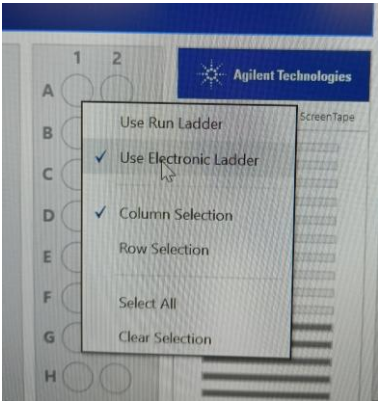
After measurement

- empty bin with tips and keep/trash tape



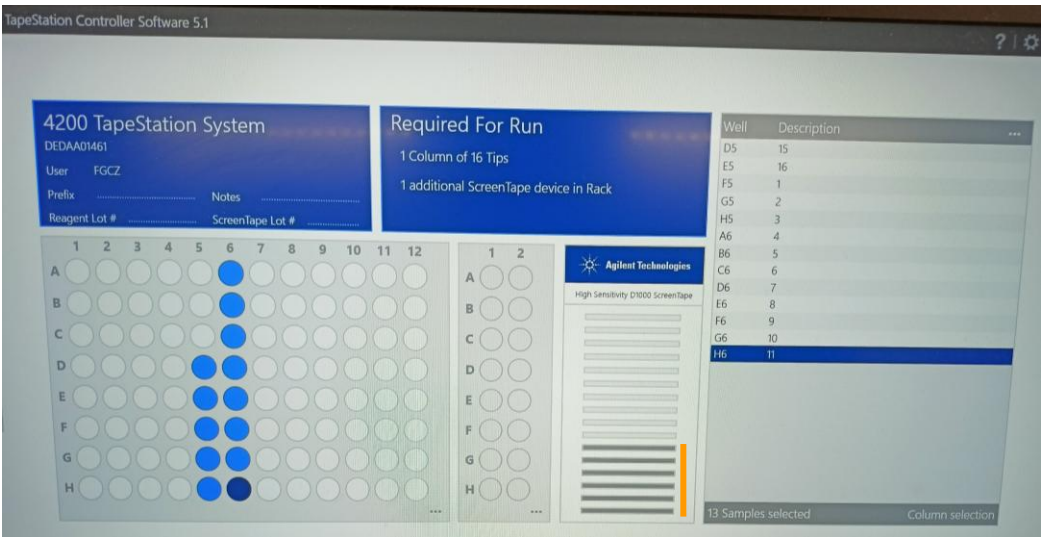
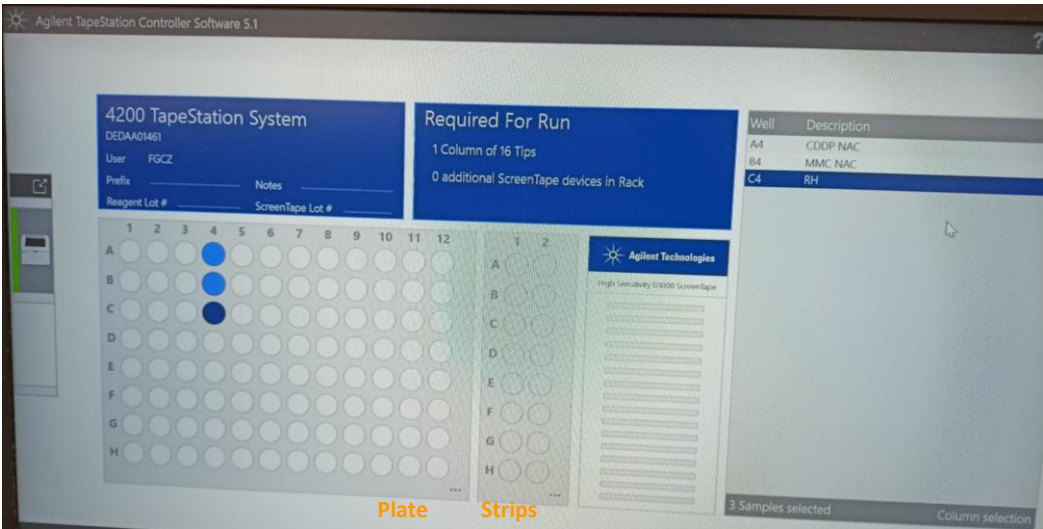
Workflow: Software

Warning before run!



- Position A1 is always for ladder
- right click A1
 - select "Use Electronic Ladder!"
 - the analysis software requires the Ladder

Select position of samples
and
name the samples (Well and Description)



These columns were already used

Workflow: Software

Genomic center UZH

- create your folder on the descope

Comparison (bar up; the last option)

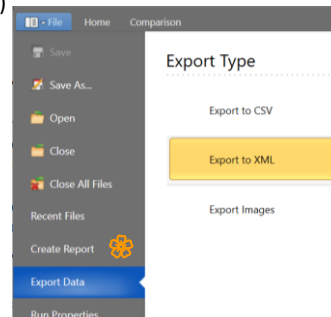
- select samples (only click)
- save comparison file (upper bar, last icon)

Home

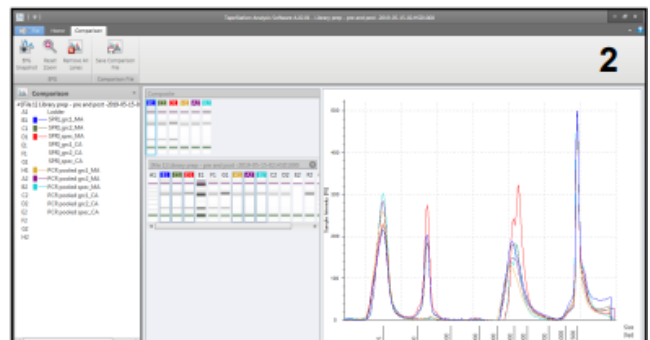
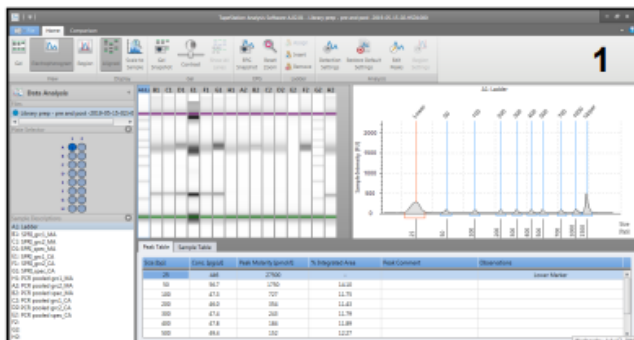
- to see the runs
- select Regions
 - Click Region
 - Region Settings
 - Select region: define range (100 – 1000)
 - Note: for R-loop Cut & Tag should be 180 – 600 bp, up to 800 bp)

File

- Export data
 - CSV (excel)
 - Sample table: concentrations
 - Peak table: all peaks
 - Region table
- Create Report 🌸

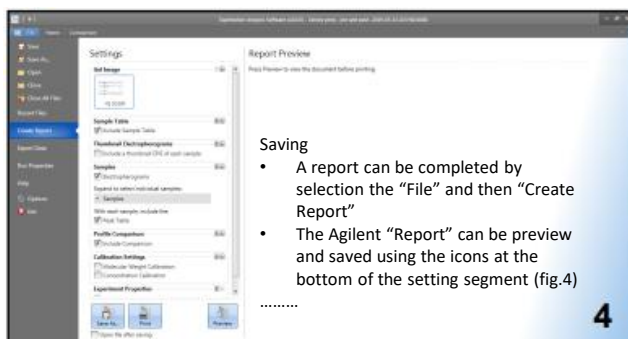
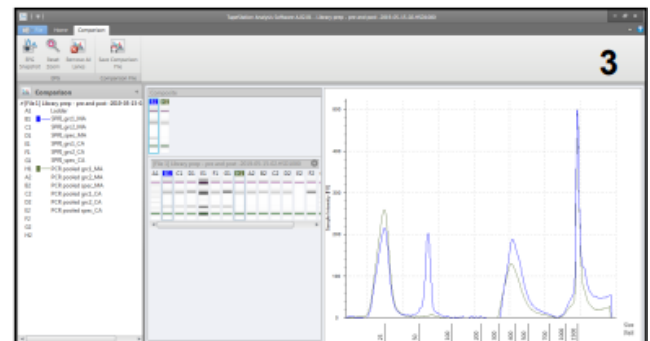


Source (link on the website, below): Agilent TapeStation; https://www.malariagen.net/wp-content/uploads/2023/10/GbS04_Agilent_TapeStation.pdf



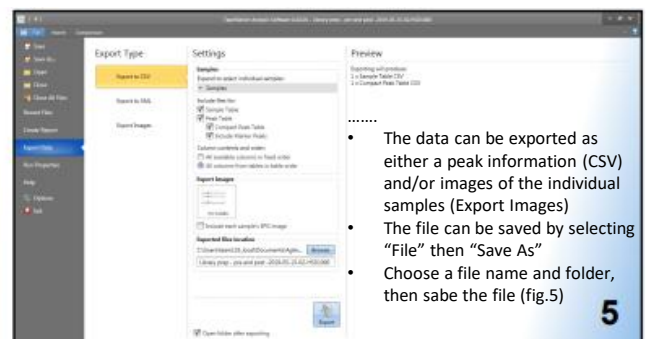
Comparison software

- will open once the run is complete (fig.1)
- for comparison select the comparison tab (fig.2)
- specific samples can be compared by selecting and de-selecting sample within the comparison window (fig.2&3)
- save: by selecting "Save Comparison File"



Saving

- A report can be completed by selection the "File" and then "Create Report"
- The Agilent "Report" can be preview and saved using the icons at the bottom of the setting segment (fig.4)



- The data can be exported as either a peak information (CSV) and/or images of the individual samples (Export Images)
- The file can be saved by selecting "File" then "Save As"
- Choose a file name and folder, then save the file (fig.5)