

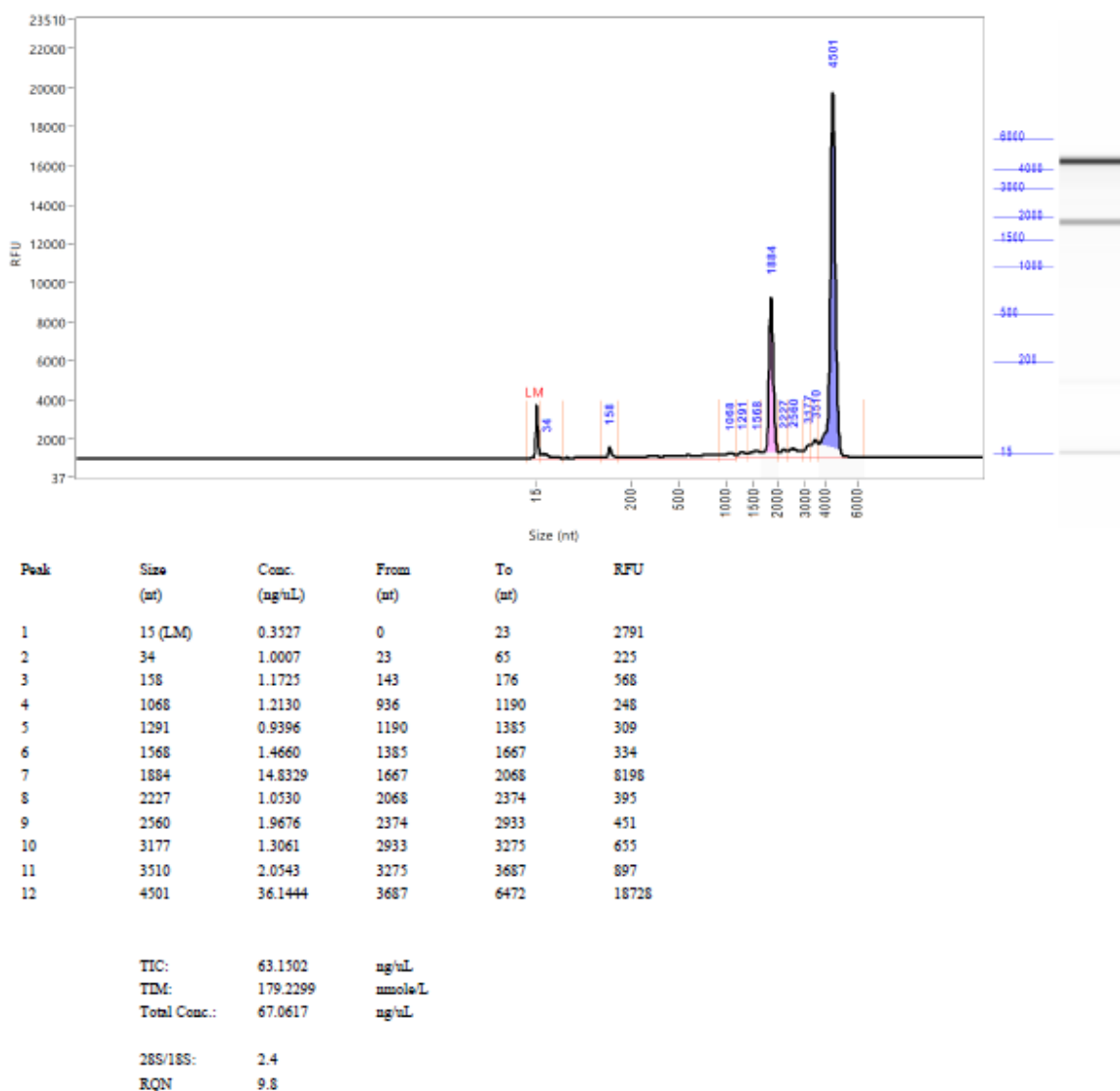
RNA and DNA quality check

RNA quality control via Fragment Analyzer:

- a 2.5 µL aliquot of each sample is needed
- please provide the samples in 0.2 mL – 1.5 mL tubes, larger amounts ≥ 8 samples have to be provided in 0.2 mL PCR tube strips
- store samples in the dedicated box in the -80°C freezer (room 3.30, sequencing rack, pink “fragment analyzer” box)
- please label your samples clearly with sample ID, your name and workgroup
- please send an Excel-table with the respectively measured concentrations (NanoDrop) to the lab managers

After analysis you'll receive a pdf-report per email.

Example:



Key:

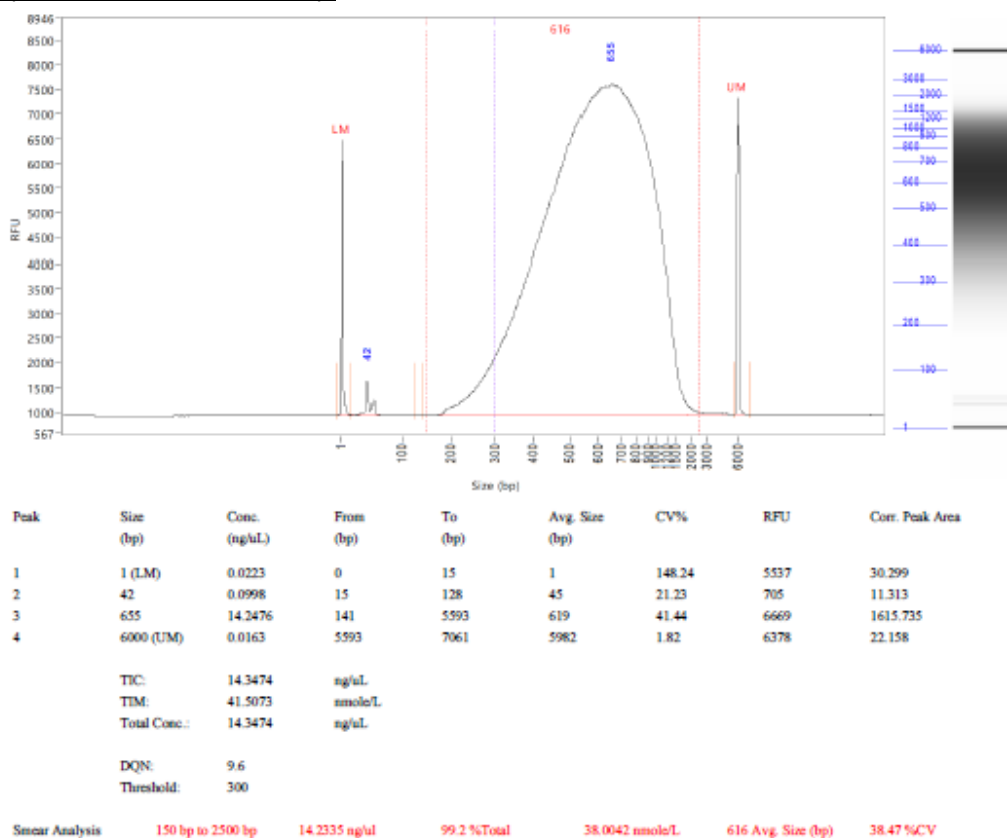
RQN	RNA quality number (should be ≥ 8 for sequencing samples)
28S/18S ratio	should be ≥ 2 for sequencing samples (intact, high quality RNA)
Total conc.	this concentration does <u>not</u> include any dilution factors of pre-dilutions

DNA quality control via Fragment Analyzer:

NOTE: This analysis is only intended for the quality checks of sequencing libraries!

- a 2.5 μL aliquot of each sample is needed; in case a pre-dilution of the sample is required (according to library prep. protocol), please prepare the dilution for the final aliquot!
- please provide the samples in 0.2 mL – 1.5 mL tubes, larger amounts ≥ 8 samples have to be provided in 0.2 mL PCR tube strips
- store samples in the dedicated box in the -20°C freezer (room 3.05, top most drawer, yellow “fragment analyzer” box)
- please label your samples clearly with sample ID, your name and workgroup
- send an email with all essential information (sample amount, type of fragment analyzer kit, fragment size range that should be used to determine the average fragment size (& quantification) to the lab managers

Example (final Nextera XT library)



Key:

DQN DNA quality number (good quality: ≥ 8)

Total conc. this concentration does not include any dilution factors of pre-dilutions

- red lines in the graph mark the borders of the smear analysis, which were used to determine the average fragment size
- smear analysis: data (range, conc.[ng/ μL and in mM/L], average fragment size...) are listed below the sample integration table (red values). These values are used for final library calculations (sample normalisation...).