

RNA/DNA quality and quantity analysis requirements

Note that the user is responsible for the results in case the samples submitted do not match the specifications below or do not meet the criteria of the chosen lab procedure.

- Samples must be at the appropriate concentrations as specified below. Analyzing samples outside the recommended range may result in skewed results. All samples will be charged.

Tapestation	D1000	High-sensitivity DNA	Genomic DNA	RNA	High-sensitivity RNA
Sizing range	35-1000 bp	35-1000 bp	200->60,000 bp		
Functional range	0.2-50 ng/ul	0.05-1 ng/ul	10-300 ng/ul	25-500 ng/ul	1-25 ng/ul
Maximum buffer strength	20 mM KCl, 60 mM Phosphate Buffer, 60 mM Guanidine-HCl, 240 mM NaCl, 60 mM Acetate			200 mM Tris, 20 mM EDTA, 50 mM NaCl	10 mM Tris, 1 mM EDTA
Qubit	High-sensitivity DNA	Broad range RNA	High-sensitivity RNA		
Quantification range*	0.2-100 ng/ul	20-1000 ng/ul	5-100 ng/ul		

* For lower concentrations please contact us.

- Please provide 3 ul aliquots for RNA/DNA quality measurement.
If you require Qubit measurements as well, please provide 5 ul aliquots.
- Samples should be submitted in PCR strips. Tubes must be clearly marked with a serial number on the top and the side of the tube (not sample name), corresponding to the sample's number in the Sample Information Form.
- Deliver RNA samples frozen (dry ice) to assure sample integrity.
- For more information about Tapestation quality assay, please see:
 - **DNA:** <https://www.agilent.com/en/product/automated-electrophoresis/tapestation-systems#1>
 - **RNA:** <https://www.agilent.com/en/product/automated-electrophoresis/tapestation-systems#2>
- An electronic Sample Submission Form should be filled out and sent by email to tgc@technion.ac.il.