

Next-Generation sequencing

Sample submission guidelines



ILLUMINA or IonTorrent	Minimal amount	Concentration	Shipping
gDNA or amplicons	250 ng	>10 ng/μl	<10°C
gDNA for metagenomic analysis	20 ng	>1 ng/μl	

Non-degraded DNA dissolved in EB or low TE buffer (<0,1 mM EDTA), RNA-free and without traces of organic solutions.

ILLUMINA or IonTorrent	Minimal amount	Concentration	RIN	Shipping
Total RNA	1000 ng	>10 ng/μl	>7	Dry ice
dsRNA	200 ng			

Non-degraded RNA dissolved in RNase-free water, DNA-free and without traces of organic solutions.

Ready-to-use libraries	Minimal volume	Concentration	Max. length*	Shipping
Illumina	10 μl	>10 nM	800 bp	<10°C
IonTorrent	20 μl	>0,5 nM	350 bp	

* of fragments including adapters and barcodes compatible with the selected technology. Libraries must be dissolved in EB or low TE buffer (<0,1 mM EDTA) and provided as a final pool (we do not accept individual libraries before pooling unless agreed upon).

PacBio	Minimal amount	Concentration	Shipping
dsDNA	6 μg	>100 ng/μl	Dry ice
Amplicons (0,1 – 10 kb)	1,5 μg		

For dsDNA please submit also a small sample aliquot (50 ng DNA) for quality control. See the FAQ section of our NGS website for more recommendations.

10xGenomics	Minimal amount	Concentration	Shipping
gDNA (>50 kb)	1 μg	>10 ng/μl	Dry ice
Cells*	2 000 000 cells	<5000 cells/μl	

* washed and resuspended in appropriate solution. See the FAQ section of our NGS website for more recommendations.

DNA and RNA concentration

It is recommended to measure concentration using fluorescence-based assays such as Qubit or Picogreen. We strongly advice not to use Nanodrop since UV-based measurements are in general inaccurate and may result in significant overestimation.

Sample shipment

Mail your samples to: **SEQme, U Slovanky 2067, 26301 Dobris, Czech Republic.** We recommend low-bind 0,2 ml tubes/strips or 96-well plates.