

Starting Material Requirements

Submission of Tissues for Extraction: All samples must be frozen at -80°C immediately after sectioning.

Sample type	Pipeline	Submission requirements
FFPE	Genomic	Scrolls: min 120 mm ² x 10 µm. For tissue surface area ≤ 120 mm ² up to 3 scrolls per 0.5 mL Matrix tube Cores: 2.5 mm x (1-3 mm)/ up to 2 cores per Matrix tube
FFPE	Ribodepletion	Scrolls: min 120 mm ² x 10 µm. For tissue surface area /≤ 120 mm ² up to 3 scrolls per 0.5 mL Matrix tube Cores: 2.5 mm x (1-3 mm)/ up to 2 cores per Matrix tube
OCT	Genomic or RNA	Sections: 50 µm x 10 mm x 1 mm, minimum of 4 sections supplied in 2 mL tubes
Fresh Frozen	Genomic or RNA	Sections: 50 µm x 10 mm x 1 mm, minimum of 4 sections supplied in 2 mL tubes
Cells	Genomic PCR Free	Minimum #cells: 1x10 ⁶

Submission of Nucleic Acids for Library Construction

Sequencing Library Type	Starting Material	Recommended Submission Amount	Minimum Amount	Concentration	Quantification Method	Quality Assessment Method	Quality Value	Additional Assessment
mRNA using strand specific protocols (ssRNA-Seq)	Total RNA	750 ng	250 ng (enquire for non-mammalian samples)	>12.5 ng/µL (volume 20-35 µL)	Agilent Bioanalyzer RNA nano chip	Agilent Bioanalyzer RNA nano chip	RIN > 7	A260/280 A260/230
Low input RNA (Ribodepletion)	Total RNA	50 ng	40 ng	>4 ng/µL (volume 10 µL)	Agilent Bioanalyzer RNA pico chip	Agilent Bioanalyzer RNA pico chip	RIN > 7	A260/280 A260/230
Ribodepleted strand specific RNA-Seq	Total RNA	200 ng 1.0 µg for FFPE RNA	125 ng 800 ng for FFPE RNA	>12.5 ng/µL >80 ng/µL for FFPE (volume 10 µL)	Agilent Bioanalyzer RNA nano chip	Agilent Bioanalyzer RNA nano chip	RIN > 7	A260/280 A260/230
miRNA	Total RNA	1 µg	700 ng	>70 ng/µL (volume >4 µL)	Agilent Bioanalyzer RNA nano chip	Agilent Bioanalyzer RNA nano chip	RIN > 7	A260/280 A260/230
PCR-Free Genome	gDNA	1.0 µg	700 ng	>17.5 ng/µL (volume 25-40 µL)	Quant-iT dsDNA HS Assay	Nanodrop	intact in agarose gel	A260/280 A260/230
FFPE Genomic	gDNA	1 µg	500 ng	> 12.5 ng/µL (25- 40 µL)	Quant-iT dsDNA HS Assay	Nanodrop		A260/280 A260/230
Genome shotgun low input (small gap)	gDNA	120 ng	30 ng	>1ng/µL (20- 30 µL)				
Circulating Cell-free Genome	gDNA	50 ng	5 ng	10 – 30 µL				
Bisulphite	gDNA	2 µg	1.2 µg	>30 ng/µL	Quant-iT dsDNA	Nanodrop	intact in agarose	A260/280 A260/230

				(volume 25-40uL)	HS Assay		gel	
Exome and special capture (small-gap genomic)	gDNA	1 µg	500 ng	>12.5 ng/µL (volume 25-40 µL)	Quant-iT dsDNA HS Assay	Nanodrop	intact in agarose gel	A260/280 A260/230
CHIP	ChIP'ed DNA		5 - 10 ng	>150 pg/µL (~5 ng in 35 µL)	Quant-iT dsDNA HS Assay	PAGE if possible	NA	
TCR/BCR	Total RNA	750 ng	400 ng	>133 ng/µL (3 µL)				
Constructed Libraries	library	depends on # of sequence lanes	depends on # of sequence lanes	> 10 nM	Quant-iT dsDNA HS Assay	Agilent DNA chip	Expected size range	