Nøvogene

High

Quality Data

Providing leading genomic services & solutions

Novogene is a world-leader in Next Generation Sequencing and Bioinformatics. From our state-of-the-art facility in Cambridge UK, our leading-edge platforms, welldeveloped bioinformatics pipeline, extensive NGS experience, and highly skilled and supportive team help life science research and development organisations advance human health, agriculture and environmental protection.

We provide a complete end-to-end solution for DNA and RNA sequencing projects from extraction to data analysis.

analysis



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Your guide to sample requirements...

DNA SAMPLE REQUIREMENTS											
SERVICE TYPE	SPECIES	SAMPLE TYPE	AMOUNT (QUBIT®)	VOLUME	CONCENTRATION	PURITY (NANODROPTM/AGAROSE GEL)					
Whole genome sequencing	Human, Animal, Plant & Microbe	Genomic DNA	≥ 0.2 µg	≥20 µL	≥10 ng/µL	OD260/280 = 1.8~2.0, no degradation, no contamination					
	Human, Animal & Plant	Genomic DNA	≥ 1.5 µg	≥ 20 µL	≥ 20 ng/µL						
	Microbe	(PCR-free low input)			≥ 50 ng/µL						
	Human	FFPE* DNA	≥ 0.8 µg	-	-	Fragments should be longer than 1500 bp					
Whole exome sequencing	Human & Mouse	Genomic DNA	≥ 0.4 µg	≥ 20 µL	≥ 20 ng/µL	OD260/280 = 1.8 – 2.0, no degradation, no contamination					
		FFPE**	≥0.8µg	-	-	Fragments should be longer than 1000 bp					
	Human	cfDNA/ctDNA	≥ 50 ng	-	-	Fragments should be in multiples of 170bp, no genomic contamination					
Shotgun metagenomics		Genomic DNA	≥ 200 ng	≥ 20 µL	≥ 10 ng/µL	OD260/280 = 1.8 – 2.0, no degradation, no contamination					
Amplicon based metagenomics	Microbe	Genomic DNA	≥ 200 ng	≥20 µL	≥ 20 ng/µL						
		PCR product	≥ 1.5 µg	≥ 20 µL	≥ 50 ng/µL						
De novo sequencing (Illumina)	Microbe	Genomic DNA	$\geq 1 \ \mu g$	≥ 20 µL	≥20 ng/µL						
De novo sequencing (PacBio)	Animal, Plant & Microbe	Genomic DNA (*HMW)	≥ 10 µg	≥ 50 µL	≥ 100 ng/µL	Fragments should be longer than 40K bp; no contamination; non-viscous; no EDTA contained in DNA elution buffer OD260/280=1.8~2.0; OD260/230=2.0~2.2; no degradation, no contamination					
De novo sequencing (Nanopore)	sequencing Animal & Plant Genomic DNA (*HM		\geq 10 µg	≥ 50 µL	≥ 100 ng/µL	OD260/280=1.8~2.0; OD260/230=2.0~2.2; no degradation or RNA contamination mainbands should be longer than 40K					

RNA SAMPLE REQUIREMENTS

SERVICE TYPE	SAMPLE TYPE	AMOUNT	VOLUME	CONCENTRATION	RNA INTEGRITY NUMBER (AGILENT 2100)	PURITY (NANODROPTM)	
Eukaryotic RNA-Seq	Total RNA (Animal)	0.4	≥20 µL	≥20 ng/µL	\geq 6.8, with flat base line		
	Total RNA (Plant and Fungus)	≥0.4 µg			\geq 6.3, with flat base line		
	Total RNA (Blood)	≥0.8 µg	≥20 µL	$\geq 20 \ ng/\mu L$ $\geq 6.8,$ with flat base line			
	Amplified cDNA (double-stranded) or total RNA (single cell)	≥100ng	≥ 20 µL	≥ 10 ng/µL	Fragments distributing between 400 bp~5000 bp, with the main peak at ~2000bp	OD260/280 ≥ 2.0; OD260/230 ≥ 2.0, no degradation, no contamination	
Eukaryotic RNA-Seq (strand specific library)	Total RNA (Animal)			≥20 ng/µL	\geq 6.8, with flat base line		
	Total RNA (Plant and Fungus)	≥0.8 µg	≥ 20 µL		\geq 6.3, with flat base line		
	Total RNA (Animal)		≥20 µL	≥50 ng/µL	\geq 7.5, with smooth base line		
Eukaryotic small RNA	Total RNA (Plant and Fungus)	≥2µg			\geq 7, with smooth base line		
séquencing	Exosome RNA	≥20 ng	\geq 10 μ L	-	Fragments distributing between 25~200 nt (by high sensitive Agilent 2100 Bioanalyzer), FU> 10, with no peak > 2000nt		
	Total RNA (Animal)			≥50 ng/µL	≥ 6.5, flat base line		
Eukaryotic IncRNA	Total RNA (Plant and Fungus)	≥2µg	≥ 20 µL		≥6, flat base line		
sequencing	Exosome RNA	≥20 ng	≥ 10 µL	-	Fragments distributing between 25~200 nt (by high sensitive Agilent 2100 Bioanalyzer), FU> 10, with no peak > 2000nt		
Eukaryotic circRNA sequencing	Total RNA (Animal)	-		. 50 / 1	≥7, flat base line		
	Total RNA (Plant and Fungus)	≥5µg	≥ 20 µL	≥50 ng/µL	≥ 6.5, flat base line		
Prokaryotic RNA-seq	Total RNA	≥3µg	≥ 20 µL	≥ 50 ng/µL	\geq 6.0, with flat base line		
Meta-transcriptomics	Total RNA	≥ 2.5 µg	≥ 20 µL	≥ 50 ng/µL	\geq 6.5, with flat base line		

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Sample delivery address:

Novogene Europe, 25 Cambridge Science Park, Milton Road, Cambridge, CB4 0FW

+44 (0)1223 628750 europe@novogene.com