

SAMPLE QUALITY & QUANTITY -ILLUMINA SERVICES

1. Exome & Targeted Sequencing

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	1000 ng
OD	260/280 ratio of 1.8 to 2.0

2. Whole Genome DNA Sequencing (Reference)

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	1000 ng
OD	260/280 ratio of 1.8 to 2.0

3. Whole Genome Sequencing (De Novo)

3.1 Paired End Library

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	1000 ng
OD	260/280 ratio of 1.8 to 2.0

3.2 Mate-pair Library

Nature of sample	Genomic DNA
Concentration	50 ng / μ l
Quantity	5000-6000 ng
OD	260/280 ratio of 1.8 to 2.0

3.3 10X Chromium Sequencing

Nature of sample	Genomic DNA	Tissue/ Cell Culture/ Plants	Blood
Concentration	100 ng / μ l	NA	NA
Quantity	1000 ng	1g	5ml
OD	260/280 ratio of 1.8 to 2.0	NA	NA

3.4 Bionano - Direct Label and Stain (DLS)/ Nicking, Labeling, Repairing, and Staining (NLR)

Nature of sample	Tissue/ Cell Culture/ Plants	Blood
Concentration	NA	NA
Quantity	5g	6ml
OD	NA	NA

3.5 HiC (Arima/ Dovetail)

Nature of sample	Tissue/ Cell Culture/ Plants	Blood
Concentration	NA	NA
Quantity	1g	5ml
OD	NA	NA

4. RNA Seq (Reference/De Novo)

Nature of sample	Total RNA (free of interfering macromolecules including DNA, proteins, carbohydrates)
Concentration	1000 ng / μ l
Quantity	5 μ l (= 5000 ng)
RIN	> 8 [7 to 8 accepted at customers risk]
OD	260/280 ratio of 1.8 to 2.0

5. Metagenomics (16S/18S/ITS)

Nature of sample	Genomic DNA
Concentration	10 ng / μ l
Quantity	500 ng
OD	260/280 ratio of 1.8 to 2.0

6. Whole Genome Metagenome Sequencing

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	1000 ng
OD	260/280 ratio of 1.8 to 2.0

7. Whole Genome Metagenome Sequencing

Nature of sample	RNA
Concentration	200 ng / μ l
RIN	>8.0
Quantity	5000 ng
OD	260/280 ratio of 1.8 to 2.0

8. CHIP Seq

Nature of sample	CHIP DNA
Concentration	5 ng / μ l
Quantity	10-50ng
OD	Not applicable

9. Bisulphite Sequencing

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	1000-1500 ng
OD	260/280 ratio of 1.8 to 2.0

10. ddRAD

10.1 ddRAD Reference

Nature of sample	Genomic DNA
Concentration	50 ng / μ l
Quantity	500 ng
OD	260/280 ratio of 1.8 to 2.0

10.2 ddRAD Denovo

Nature of sample	Genomic DNA
Concentration	50 ng / μ l
Quantity	500-1000 ng
OD	260/280 ratio of 1.8 to 2.0

11. Amplicon Sequencing

Nature of sample	Amplicons
Concentration	100 ng / μ l
Quantity	1000-1500 ng
OD	260/280 ratio of 1.8 to 2.0

12. Mitochondrial DNA Sequencing

Nature of sample	Amplicons
Concentration	50 ng / μ l
Quantity	500 ng
OD	260/280 ratio of 1.8 to 2.0

13. Degradome Sequencing

Nature of sample	RNA
Concentration	300 ng / μ l
RIN	>8.0
Quantity	100 microgram
OD	260/280 ratio of 1.8 to 2.0

14. MeDIP

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	1500 ng
OD	260/280 ratio of 1.8 to 2.0

15. Meta-Transcriptome

Nature of sample	RNA
Concentration	500 ng / μ l
RIN	>8.0
Quantity	10-12micro gram
OD	260/280 ratio of 1.8 to 2.0

16. MNase Sequencing

Nature of sample	MNase Treated DNA
Concentration	5 ng / μ l
Quantity	30-60 ng
OD	Not Applicable

17. RIP Sequencing

Nature of sample	RIP sample
Concentration	20 ng / μ l
Quantity	100-500 ng
OD	260/280 ratio of 1.8 to 2.0

18. Ready to run Library

Nature of sample	Ready to run library
Concentration	5 ng / μ l
Quantity	20-50 ng
OD	260/280 ratio of 1.8 to 2.0

SAMPLE QUALITY & QUANTITY PACBIO SERVICES

1. Whole Genome Sequencing PacBio Library Prep

Nature of sample	Genomic DNA
Concentration	100 ng / μ l
Quantity	10micro gram
OD	260/280 ratio of 1.8 to 2.0; 260/230 ratio of 2.0 to 2.2

2. Iso-Seq

Nature of sample	RNA
Concentration	400 ng / μ l
RIN	>8.0
Quantity	4000-5000 ng
OD	260/280 ratio of 1.8 to 2.0

CONTACT US

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