

Sample Quality & Quantity Illumina Services



1 Exome & Targeted Sequencing

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

2 Whole Genome DNA Sequencing (Reference)

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

3 Whole Genome Sequencing (*De novo*)

3.1 Paired End Library

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

3.2 Mate-pair Library

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

3.3 10X Chromium Sequencing

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

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

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

3.5 HiC (Arima/ Dovetail)

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

4 RNA Seq (Reference/De novo)

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

5 Metagenomics (16S/18S/ITS)

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

6 Whole Genome Metagenome Sequencing

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

7 Small RNA Sequencing

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

8 ChIP Seq

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

9 Bisulphite Sequencing

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

10 ddRAD

10.1 ddRAD Reference

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

10.2 ddRAD De novo

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

11 Amplicon Sequencing

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

12 Mitochondrial DNA Sequencing

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

13 Degradome Sequencing

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

14 MeDIP

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

15 Meta-Transcriptome

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

16 MNase Sequencing

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

17 RIP Sequencing

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



Ready to run Library

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

SAMPLE QUALITY & QUANTITY PACBIO SERVICES



Whole Genome Sequencing PacBio Library Prep

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

2 Iso-Seq

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

