

NGS library QC criteria (DNA)

The values given below are for reference only and may change at any time without notice. For more information, please contact your Macrogen Europe representative.

Please note the difference between the criteria given in nM and those given in ng/μL – as well as the different values for client-prepared and Macrogen-prepared libraries.

1. Illumina sequencing

1.1 Whole genome

<i>Library prep kit</i>	<i>Concentration (nM)</i>	
	<i>Client-prepared</i>	<i>Macrogen-prepared</i>
Accel Methyl-Seq	10	5
Accel-NGS 1S PCR-free	10	5
Nextera DNA XT	10	5
TruSeq ChIP-Seq	10	5
TruSeq DNA PCR-free	10	5
TruSeq Nano DNA	10	10
TruSeq Nano DNA (designated insert)	10	5
TruSeq Nano DNA (low molecular weight)	10	5
Twist exome + refseq + mtDNA	10	5

1.2 Targeted

<i>Library prep kit</i>	<i>Concentration (nM)</i>	
	<i>Client prepared</i>	<i>Macrogen prepared</i>
MBD enriched library	10	5
SureSelect custom	10	10
SureSelect human methyl-seq	10	10
SureSelect mouse	10	10
SureSelect mouse methyl-seq	10	10
SureSelect V4	10	10
SureSelect V4+UTR	10	10
SureSelect V5	10	10
SureSelect V5+UTR	10	10
SureSelect V6	10	10
SureSelect V6+UTR	10	10
SureSelect V7	10	10

1.3 Modified libraries

<i>Library prep kit</i>	<i>Concentration (nM)</i>	
	<i>Client prepared</i>	<i>Macrogen prepared</i>
GBS library (single enzyme)	10	5
GBS library (double enzyme)	10	5
RAD library (single)	10	5
RAD library (double)	10	5
Other modified libraries	10	5

1.4 Amplicon

<i>Library prep kit</i>	<i>Concentration (nM)</i>	<i>Concentration (ng/μL)</i>
Metagenome amplicon		10
Target amplicon DNA		10
Prepared NGS library	5	

2. PacBio sequencing

2.1 Sequel I

<i>Library prep kit</i>	<i>Concentration (ng/μL)</i>	<i>Size range (kbp)</i>
16s full-length amplicon library	10	1.5 – 3
Amplicon library (1 to 5 kb)	10	1 – 5
Sequel microbial library	17	3 – 50
SMRTbell Express (10 kb)	17	10 – 50
SMRTbell Express (20 kb)	17	15 – 50

2.2 Sequel II

<i>Library prep kit</i>	<i>Concentration (ng/μL)</i>	<i>Size range (kbp)</i>
16s full-length amplicon library	20	1.5 – 3
Amplicon library (1 to 5 kb)	20	1 – 10
HiFi (10 to 25 kb)	20	15 – 20
Large insert (>15 kb cut-off)	20	15 – 20
Sequel microbial library	20	3 – 50
SMRTbell Express (10 kb)	20	10 – 50