

# CIDR Genotyping Sample Requirements

CIDR requests more DNA than is required to attempt a study experiment a single time using manual processing for the following reasons: We require sufficient DNA to allow us to use robotics for all sample processing. We pretest all samples with a SNP barcode assay. We attempt any failed pretesting or study experiment a 2nd time.

Optimal results are obtained with high molecular weight genomic DNA. The higher end of the concentration range is recommended for optimal performance for downstream copy number analysis.

For whole genome amplified (WGA) DNA, a phi29 based amplification method and higher concentrations are recommended. WGA DNA will not give usable results for downstream copy number analysis. In addition, a higher NON-RANDOM missing rate usually results from samples where an amplified DNA source is used.

For the Affymetrix® 6.0 service, ONLY blood or cell-line derived genomic DNA is accepted.

Marker Set	Minimum # Experimental Samples	DNA Volume (ul)	Genomic DNA Concentration (ng/ul)	Whole Genome Amplified DNA Concentration (ng/ul)
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## Human Studies

Illumina Human1M-Duo	46	35	50-100	100-200
Affymetrix® SNP Array 6.0	46	60	75-150	Not applicable
Illumina Human610-Quad	46	25	50-100	100-200
Illumina HumanCNV370-Quad	46	25	50-100	100-200
Illumina HumanLinkage-12	46	25	50-100	200-400
Illumina Cancer Panel	88	25	75-150	200-400
Illumina MHC Panel	88	25	75-150	200-400
Illumina GoldenGate Custom Panel	360	25	75-150	200-400
Illumina iSelect Infinium Custom Panel	1,080	25	50-100	100-200

## Mouse Studies

Illumina Medium Density Linkage Panel	82	25	75-150	200-400
Illumina GoldenGate Custom Panel	360	25	75-150	200-400
Illumina iSelect Infinium Custom Panel	1,080	25	50-100	100-200