Infinium® QC Array-24 v1.0 BeadChip

Cost-effective sample QC and tracking for biobanking and high-throughput genomics.

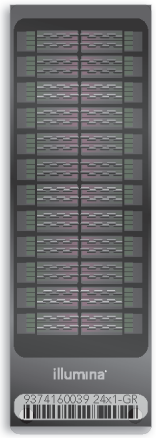

Figure 1: Infinium QC Array-24 v1.0 BeadChip—High-throughput, cost-effective genotyping for quality control, tracking, and stratification applications.

Overview

The Infinium QC Array-24 v1.0 BeadChip offers a cost effective way to perform sample tracking, quality control, and stratification for high throughput genomics, biobanking, and any other application that requires validation of sample identity and quality. With 15,949 markers, the Infinium QC Array-24 v1.0 BeadChip offers markers focused on sex determination, ethnic ancestry, linkage, high value functional content, and several other categories (Tables 1 and 2).

The Infinium QC Array-24 v1.0 BeadChip utilizes the Infinium 24-sample HTS format. With the proven iScan® or HiScan® Systems, the Infinium QC Array-24 v1.0 BeadChip enables high accuracy and high-throughput genotyping required for quality control, tracking, and stratification applications (Table 1).

Learn More

To learn more about the Infinium QC Array-24 v1.0 BeadChip and other Illumina genotyping products and services, visit www.illumina.com/techniques/popular-applications/genotyping.html.

Table 1: Infinium QC Array-24 v1.0 BeadChip Product Information

Feature	Description	
Total Number of Markers	15,949	
Number of Samples per BeadChip	24	
Input DNA Requirement	200 ng	
Assay	Infinium HTS	
Instrument Support	iScan or HiScan	
Sample Throughput[a]	5,760 samples/week	
Scan Time per Sample	2.5 minutes	
Description	**Value[b]**	**Product Specification**
Call Rate (Females-Y Excluded + Males-Y Included)[c]	99.92%	> 99%
Call Rate (Females + Males-Y Excluded)[c]	99.96%	> 99%
Reproducibility	99.99%	> 99.9%
Log R Deviation	0.13	< 0.30[d]

a. Estimate assumes 1 dual iScan system, 2 AutoLoader 2.x, 1 Tecan robots, 3 full-time employees, and a 5-day work week.
b. Values are derived from genotyping 708 HapMap reference samples.
c. Due to the large percentage of Y markers, female samples will appear to have low call rates if Y markers are not excluded for female samples.
d. Value expected for typical projects using standard Illumina protocols. Tumor samples and samples prepared by methods other than standard Illumina protocols excluded.

Table 2: Infinium QC Array-24 v1.0 BeadChip Marker Information

Marker Category	Number of Markers		
ADME	1009		
Ancestry Informative	2910		
Blood Group	1659		
FingerprintSNPs	477		
Linkage	5486		
Extended MHC	930		
Mitochondrial	141		
Sex Chromosomes	X 1840	Y 1401	PAR 535

Ordering Information

Infinium QC Array-24 v1.0 BeadChip Kit	Catalog No.
Infinium QC Array-24 v1.0 (48 samples)	20004347
Infinium QC Array-24 v1.0 (288 samples)	20004348
Infinium QC Array-24 v1.0 (1152 samples)	20004349

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