Resource Summary Report

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Illumina: Bead Xpress In Vitro Assay

RRID:SCR_020117
Type: Tool

Proper Citation

Illumina: Bead Xpress In Vitro Assay (RRID:SCR_020117)

Resource Information

URL:
https://www.illumina.com/documents/products/datasheets/datasheet_beadxpress_reader.pdf

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Description: Illumina Beadstation 500 is a high performance benchtop system designed for genetic analysis, particularly single nucleotide polymorphism (SNP) genotyping. High quality BeadArray technology provides the utmost in sensitivity thanks to a built in 30 fold redundancy and unparalleled quality control for every single feature on each array. Manual and automated processing is possible for both RNA- and DNA- based applications, and is made easy when the instrument is used in conjunction with liquid handlers and system software. For flexibility, the platform can be integrated with various other systems and robotics for meeting the requirements of many protocols. Reliability and reproducibility are ensured thanks to the scanner of the Beadstation. Additionally, sample throughput is adjustable. For gene expression (focused set), the unit can process 16 samples on one individual Sentrix BeadChip or 96 samples on a single Sentrix Array Matrix (SAM). For a 96 bundle matrix, processing times are as fast as 90 minutes or less. With a multiplex capability of as many as 1,536 plex, this system also provides great efficiency without sacrificing precision. Image resolution is less than one micron, and throughput can range from 16 to 192 (1536 SNP loci per array) per eight hour day for genotyping and 6 to 54 whole genome expression samples for gene expression. Minimal sample requirement (about 250 ng of DNA per assay for genotyping protocols and 50 ng to 100 ng total RNA for gene expression protocols) makes this system best for applications that use biopsies, fine needle aspirates, or preserved samples that are typically impossible to replace or are too low in quantity to meet the minimum input requirements of comparable instruments.

Resource Type: instrument resource

Keywords: Illumina, In Vitro Assay, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: Illumina: Bead Xpress In Vitro Assay

Resource ID: SCR_020117

Alternate IDs: Model_Number_Bead Xpress

Record Creation Time: 20220129T080348+0000

Record Last Update: 20260815T182632+0000

Ratings and Alerts

No rating or validation information has been found for Illumina: Bead Xpress In Vitro Assay.

No alerts have been found for Illumina: Bead Xpress In Vitro Assay.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.