BD Rhapsody™ 8-lane Cartridge & Microwell Technology

1-192 samples/cartridge & 100-100,000 cells/lane

Combine different assays, on one cartridge

Partial cartridge loading enabled

Buffer exchange enabled, allowing:
- Loading of cells in isotonic buffer
- Washing of cells & beads to dilute unbound analytes
- Conduct cell capture, lysis and RT in optimized buffers

Low multiplet rate:
e.g. 10% @55,000 cells loaded

320µl loading volume

No clogging errors, no wetting errors

BD Rhapsody™ Scanner Optional samples & workflow QC

Optional image-based quality control
(Cell concentration & viability)

Visualize every step of the cartridge workflow
- # of viable cells loaded
- Multiplet rate (%)
- # of viable cells paired with a bead in a microwell

Scanner creates a full report of the metrics and allows the allocation of sequencing reads with high-precision based on the number of singlets captured

BD

BD Rhapsody™ assay & sample preservation solutions

RNA-Seq
- Whole Transcriptome Assay
- Targeted RNA-Seq to focus on gene of interest with BD Rhapsody™ panels incl. custom options

TCR/BCR (VDJ)
- Full length VDJ and CDR3 assays
- Covers Gamma/Delta chains & compatible with 3' RNA-Seq

BD® AbSeq (CITE-Seq)
- Extracellular- and intracellular proteins
- Single pre-titrated antibodies including Custom-options
- Dried-down BD® OMICS-One panels with SMART design
- No repeated cell washes needed before the cell capture

ATAC/Multiomics ATAC
- Antibody-based sample multiplexing available (lower costs/sample)

Sample Multiplexing (SMK)
- Human- and mouse SMKs available for up to 12-plex
- Species-agnostic indirect labeling SMKs available for up to 24-plex

BD® OMICS-Guard (Sample preservation)
- Store sample for up to 72h °4C
- Antibody staining before or after the preservation

BD Rhapsody™ Enhanced Capture Beads

After reverse transcription, the cDNA remains covalently bound to the bead and is used as a template for the library preparation

The beads with the cDNAs can be stored at 4°C for up to 1 year, and can be shipped on cool packs

The beads can be subsampled to prepare the libraries of only the desired number of cells

BD