

Unlock new research applications with the BD Rhapsody™ HT Single-Cell Analysis System



Single-cell analysis technologies are essential to understand the intricacies and heterogeneity of cellular populations. What influences your workflow decisions in single-cell experiments?

Consider a scenario where processing fresh clinical tissue samples is required for your research. Efficiency and immune cell profiling is essential. Do you lock in cell state with fixation solutions or seek to run your samples as stored archives?

Fixing cells to preserve cell state and run at a later date using gel bead emulsion (GEM) technology.

Fixation approaches may result in restrictions to mRNA readouts only. VDJ and cell surface protein readouts may not be possible.

- Restricted by cellular barcode diversity in GEM capture technology.
- Unable to subsample and store a back-up portion of your sample.
- In fixing the cells, automated library preparation can be lost.
- Due to limited barcode diversity in GEM, pooling samples across lanes is not encouraged.
- Each sample received will require individual cell capture reagents and library preparation reagents.

Resulting in initial time savings but no reagent cost savings and limitations in workflow.

Completing cell capture to cDNA synthesis with the BD Rhapsody™ System as samples come in, storing the captured beads.




Provides the ability to maximize cell capture at up to 55K cells per lane.

No restrictions on approach; compatible with multiplexing and BD® AbSeq Assays and TCR/BCR assays.

With BD Rhapsody™ Enhanced Cell Capture Beads and the cellular barcode diversity, introducing the ability to:

- **Pool samples** across the 8-lane cartridge and perform one library preparation using the right sample multiplexing strategy
- **Store an archive** of your sample as backup knowing the stored beads provide equivalent data to fresh beads
- **Save on reagent spend** with the cartridge reagent kits and pooling strategy

Other key research applications include:

-  **Expanded throughput**—million-cell studies now possible
-  **Partial-use cartridge approach**—run separate assays on fractions of your sample with the flexibility of the 8-lane cartridge with sub sampling capability
-  **Recover fragile cells**—using microwell technology to maintain sample integrity, with no sample loss due to clogging of channels

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