BD CLiC™ System

Do more with the BD integrated platform for NGS library preparation
**Liquid handling**

BD CliC liquid handling is a non-contact process that reduces labor and virtually eliminates contamination.

1. **Sample addition**
   - The system integrates with standard source plates (SBS footprint).
   - Provides non-contact dispensing of samples.

2. **Barcode addition**
   - The system integrates with standard source plates.
   - Provides non-contact dispensing of barcoded adapters.

3. **Bulk reagent addition**
   - Dispenses enzymes (taq polymerase, ligase, etc.) and buffers into CLC.

**Thermal cycling**

The BD CliC thermal subsystem works with standard protocols and facilitates scalable throughput—up to 384 barcoded libraries per run.

4. **Thermal chip**
   - Contains an array of CLC reactions.
   - Full thermal control enables PCR amplification and/or isothermal incubations.
   - Controls temperature from 20°C to 95°C.

**Purification**

The BD CliC fully automated microfluidic purification subsystem saves time and labor costs.

5. **Library purification and size selection**
   - The process is fully compatible with magnetic bead purification technology.
   - Beads are agitated, aspirated and dispensed into microvolume reactions.
   - Automated sample washes and elution take place within the purification subsystem.

6. **Library collection**
   - Dispenses samples individually in plates or pooled.

**Composite Liquid Cell (CLC) Technology**

CLC technology fully encapsulates reactions in oil, virtually eliminating plasticware from the workflow. This technology is ideal for the automation of complex genomic protocols that require sequential reagent addition and purification steps.

* Non-contact reagent dispense in 100nL increments.

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Research Use only, not intended for diagnostic or therapeutic procedures.
BD CLiC™ Library Prep Reagent Kits

Contains everything needed to run specific library prep protocols, except samples and third-party kits:

- Activation barcode
  - Contains the instrument protocol for performing specific protocol (just scan and instrument is programmed for the protocol)
  - Protocol has been optimized and wet-lab validated by BD
- Consumables (plasticware and oils needed to run protocol)
  - BD CLiC deck requires specific plate types (although standard SBS footprint) and pipette tips, which are provided for convenience.