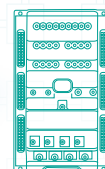
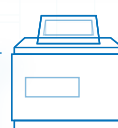


DNBelab-D4

Digital Sample Preparation System



From DNA to DNB
All in one cartridge, including quantification



Light Equipment
No preparation required,
Plug and go

- **Low Temperature Holding Module**

Keep low temperature constant for reagent storage

- **Optical Module**

Conduct Fluorescence quantification to products

- **Temperature Control Module**

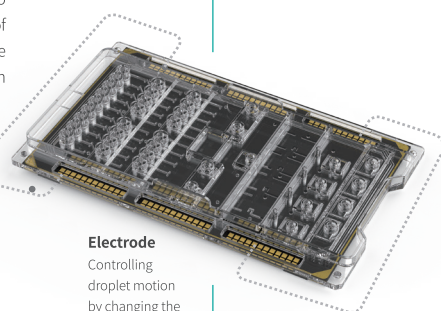
Achieve rapid heating and cooling and complete experimental steps such as PCR amplification

- **Magnet Module**

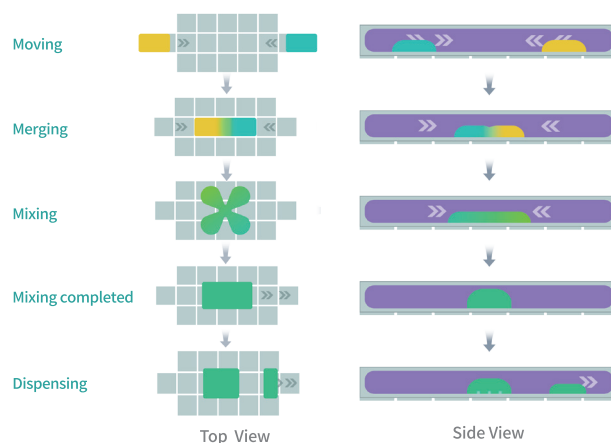
Fragment size selection and purification

Reaction Principle

- The system adopts digital microfluidic technology, droplets can be manipulated to move, merge, mix, and dispense on the sample preparation cartridge, so as to realize the movement of droplets to the target area, the reaction system construction and other digital operations.
- The reaction system is always in a closed state, the system is completely isolated from the outside air, and each reaction system is independent of each other, preventing external contamination and sample cross-talk.



Electrode
Controlling droplet motion by changing the electric field





+Sealing liquid: can block and isolate different reaction droplets
++Sealing liquid is not shown in the top view

Application

The DNBelab-D4 digital sample preparation system is currently mainly used for library preparation for high-throughput sequencing such as metagenomic sequencing of unknown pathogens and novel coronavirus traceability sequencing.

Field of Application	Number of Samples/run	Sample Start Status	Product	Sequencing Platform	Library Prep. Method	Library Prep. Reagent
metagenomic sequencing, microbial genome sequencing, novel coronavirus traceability sequencing	4	DNA, Amplicon	DNB	DNBSEQ-G99, DNBSEQ-G50, DNBSEQ-E25	Enzyme cleavage method	DNBelab-D4RS FS DNA Library Prep Set 2.0

Ordering Information

Product	Product Name	Cat. No	Type
	DNBelab-D4RS Digital Sample Preparation System	900-000483-00	RUO
	DNBelab-D4RS FS DNA Library Prep Set 2.0	940-001198-00	RUO

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Version: July 2023 | MGPC7002202

