



CELLINK BIOSCIENCES OMICS BUNDLE

Instruments designed to optimize your sequencing workflows

Low volume non-contact dispensing and automated bead cleanup allow for simplified NGS library preparation, dramatically reducing reagent costs through miniaturization and savings on pipette tips.

The I.DOT Liquid Handler and C.WASH™ plate washer are essential for workflows in COVID sequencing, single-cell RNA-seq, amplicon sequencing, targeted sequencing, small genome sequencing, and allow for automation and multiplexing of 1000s of samples.

Together, the C.WASH and I.DOT bring unprecedented accuracy and precision to your workflow through automation and miniaturization of costly and tedious steps.



I.DOT Features & Benefits

- Highly multiplexed non-contact precise low volume reagent dispensing
- Dynamic dispensing range from 8 nL to 80 µL
- Dispense 100nl in each well with 8 channels across a 96-well plate in 10 seconds and across a 384-well plate in 25 seconds
- Dispense into any SBS target plate (96, 384, 1536)
- Dispenses multiple liquid classes on-demand including aqueous solutions, PCR buffer, DMSO (up to 100%) and glycerol (up to 50%) – and defines liquid class at the well level
- Dead volume <1 µL

C.WASH Features & Benefits

- Non-contact centrifugal liquid removal for automated plate washing and bead-cleanup
- Washes microwell plates using centrifugal forces with no bead loss
- Integration into liquid handlers and 3rd party software via SiA2 interface
- Increase efficiency in bead cleanup by taking only 1/5th of the time for DNA cleanup steps
- Fast, automated and dramatically reduces the number of pipette tips required

Contact

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Application workflow for scRNA-seq



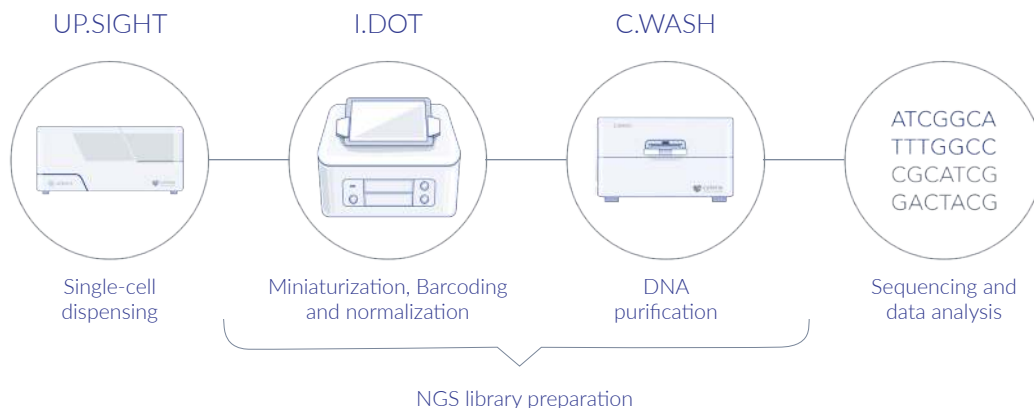
Reduced costs



Increased speed



Low volume dispensing



Benefits of plate-based single cell sequencing platform technologies widely used for single cell RNA sequencing

Single-cell dispensation is highly compatible with low sample volumes (<5 μ l), offering almost zero cell loss, compatibility with all common cell types, including nuclei, neurons, cardiomyocytes and bacterial cells. A broad range of different assays, including single-cell RNA-seq, single-cell genome sequencing, single-cell proteomics and multi-omics assays employ this workflow, which, thanks to multiple I-DOT dispensing and automated C.WASH plate washing, has been enhanced in terms of sensitivity, precision and coverage of the full transcript length.

Application workflow for COVID sequencing



Low dead volume



Reduced liquid reagent volumes



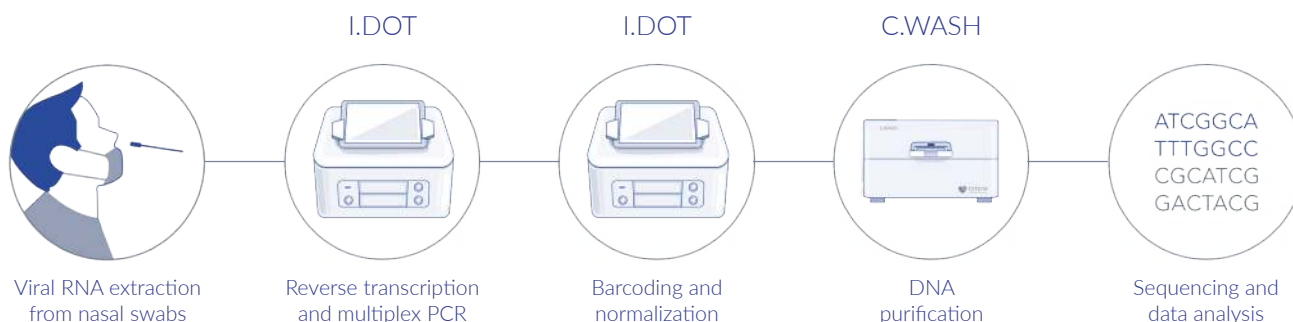
Reduced costs



Automated and optimized workflow



Save tips



Dr. Nicola Crosetto's team, used a versatile method for preparing multiplex DNA sequencing libraries from low-input viral RNA samples. This was enabled by using our low-volume, highly multiplexed I.DOT reagent dispenser. By using our automated C.WASH plate washer, they would increase the efficiency and speed of their workflow even further.