

# Sequencing Process Using the Sequence Biotech 96-channel Pipettor



## Simple, Fast, Flexible Sequencing

Using a 96-channel pipettor significantly streamlines the liquid handling steps involved in various processes within a sequencing workflow, especially during library preparation.

A general overview of how the Sequence Biotech 96 channel pipettor is used and the benefits it offers:

### Typical Applications in Sequencing

- **DNA Extraction & Purification:** 96-well plates can be used for DNA isolation from various sample types, with the pipettor facilitating reagent additions and washes.
- **Library Preparation Examples Include:**
  - Fragmentation: Breaking down DNA into smaller, sequencable pieces.
  - End-repair and adapter ligation: Adding specific sequences (adapters) to the DNA fragments for sequencing.
  - PCR amplification: Increasing the amount of library DNA.
  - Clean-up and size selection: Removing unwanted fragments and preparing the library for sequencing.

### Workflow Example

- **Reagent Dispensing:** The 96-channel pipettor can rapidly dispense reagents like lysis buffers, binding buffers, wash solutions, and elution buffers into 96-well plates, preparing samples for DNA isolation or library prep steps.
- **Mixing:** It can be used to mix reagents effectively within the wells by repeated aspiration and dispensing, ensuring consistent reactions.
- **Transferring samples:** The 96-channel pipettor allows for the simultaneous transfer of samples, minimizing hands-on time and the risk of errors associated with individual transfers.
- **Washing steps:** Repeated washing steps, crucial for removing impurities, can be efficiently performed across all wells using the pipettor and appropriate wash plates or manifolds.
- **Clean-up procedures:** Techniques such as magnetic bead-based clean-ups can be integrated, with the pipettor used for bead additions, washes, and final elution into a clean plate.



### Features

- Fill five 96-well plates in less than a minute
- Works with both 96 and 384-well plates
- 2 models: 5 – 300ul and 1 – 25ul
- Compact – will fit in a fume hood, very portable - only 20 lbs.
- Very easy to use – turn it on and start pipetting
- Now also compatible with the Rainin LTS tips

### Advantages of Using the Sequence Biotech 96-Channel Pipettor

- **Increased Throughput:** Processes 96 samples simultaneously, drastically reducing the time required compared to manual pipetting.
- **Improved Reproducibility & Accuracy:** Automates repetitive tasks, reducing user error and ensuring consistent pipetting volumes.
- **Reduced Hands-on Time:** Frees up researchers to focus on other tasks
- **Minimizing Contamination Risk**
- **Reduced Physical Strain:** Minimizes repetitive motions associated with pipetting,

## ORDERING INFORMATION

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