

Cellomics

Cell Clone Picking

The Lynx 96VVP Pipetting Tool consolidates cell colonies in a high throughput mode into 96 or 384 well plates.

Cell Clone Consolidation

Cell line development is still, to some extent, a chance process. It requires the generation of a range of suitable constructs, transfection of these into host cells and selection of appropriate clones.

These clones must originate from a single cell, express the target protein in the right quality and quantity, and grow rapidly in a simple medium.

VVP – Differential Channel Control

The most critical and variable step of the process is selecting the optimal clones from a pool of randomly generated cell lines.

The Lynx Liquid Handling Robotic Platform can accomplish high speed clone consolidation methods by aspirating specific clones from microplate wells (6,12,24,48,96 and 384 format) from a worklist using a 96 VVP Pipetting Tool.

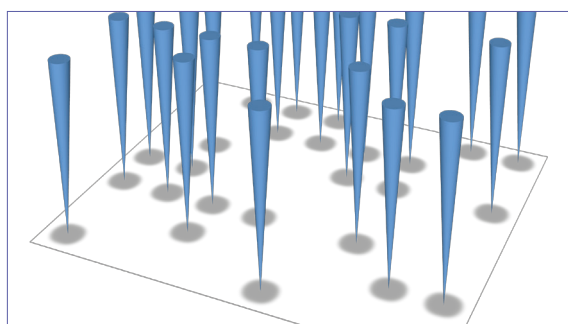
The cell clones can then be dispensed in either specific wells or into a general plate format. The 96 VVP Pipetting may then ‘fill in’ any empty wells with the next round of cells by jet dispensing the cell clones into the empty wells of the destination plate.

IonField – Tip Sterilization

For certain applications like cell clone handling, the Lynx may wash the tips used in the process and sterilize them with the use of a plasma washer to eliminate any cross contamination.

The TipCharger system uses plasma technology to clean and decontaminate pipette tips in seconds with zero sample contamination. This reduces the cost of consumables over time and allows “Recycling in Place”, thus reducing demand on the use and disposal of plastics.

	A	B	C	D	E	F	G	H
1	25	0	25	25	0	0	0	25
2	0	0	25	25	25	0	25	0
3	0	25	25	0	0	25	25	0
4	0	0	25	0	0	25	25	0
5	25	0	0	0	25	25	0	0
6	0	0	25	0	25	25	0	25
7	0	25	0	0	0	0	25	25
8	0	25	0	0	25	0	25	0



VVP Differential Aspiration & Dispense Control

