

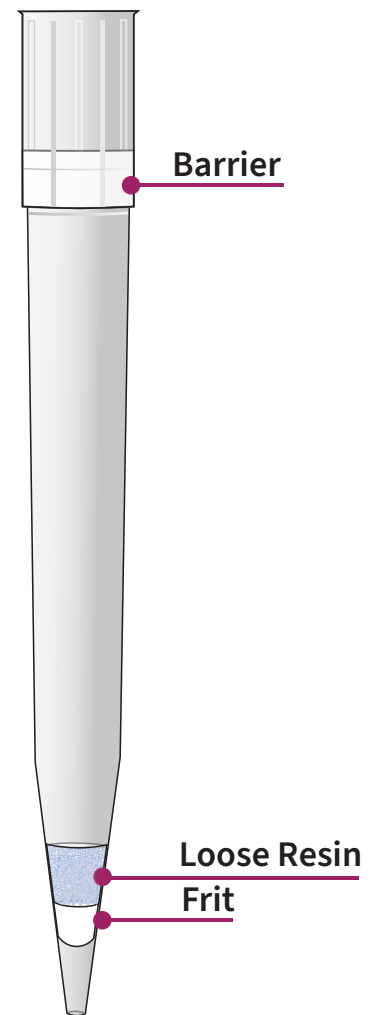
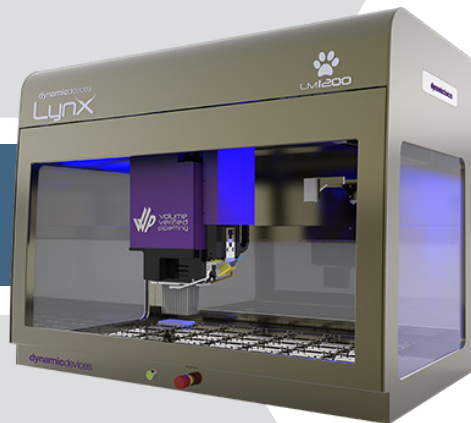
# MidiPure™ IMCStips®

Simplifying plasmid purification at scale

MidiPure™ IMCStips® on the Dynamic Devices platform offers an efficient solution for automated, high-throughput plasmid DNA purification. Designed for larger volumes, it enables labs to convert **5 mL pipetting systems into mid-scale purification platforms**. This upgrade from the 1 mL µPure IMCStips protocol allows labs to process up to 500 mL of culture, isolating nearly 2.4 mg of plasmid DNA per plate in *less than two hours*.

By coupling this technology with the **Dynamic Devices Lynx Series** liquid handling robot, methods are streamlined with the hands-free implementation of multiple aspirate and dispense cycles that facilitate consistent results, high recoveries, and faster workflows.

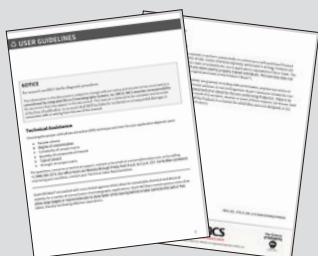
**Lynx**  
liquid handling platform



Available in 5 mL (shown).

## KEY FEATURES

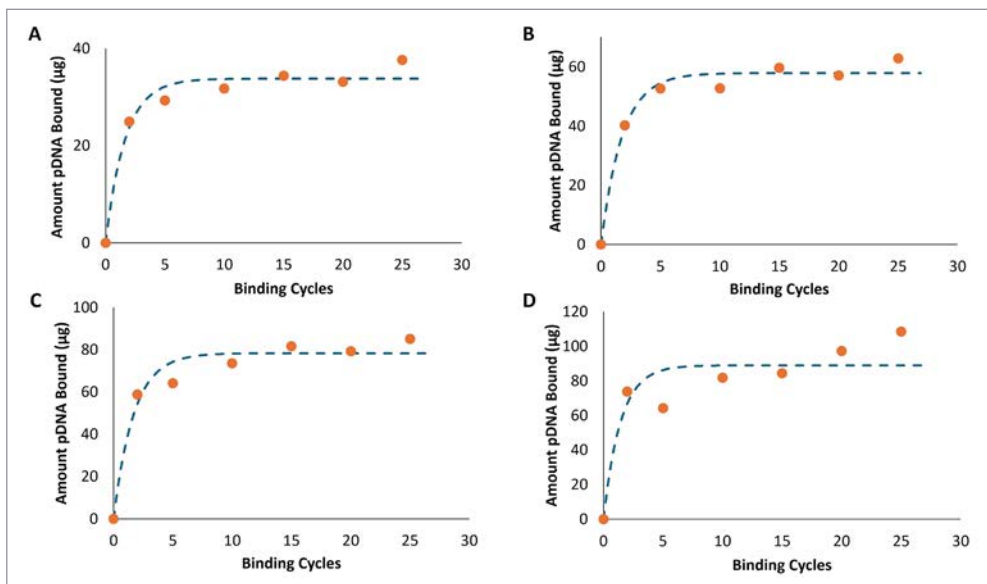
- Process up to 24 samples simultaneously with yields exceeding 100 µg per sample
- Hands-free operation eliminates the need for centrifuge or vacuum manifold steps
- Purify plasmids from 100 mL to 500 mL bacterial cultures with ready-to-use scripts
- Turnkey solutions and customized scripts for plug-and-purify workflows. *Just Click Go!*



## USER GUIDELINES

To ensure the seamless integration of IMCStips, IMCS provides technical support and templated scripts along with user guidelines for each application.

# Automated Plasmid Purification with MidiPure™ IMCStips® on a Dynamic Devices Lynx



**Figure 1.** Langmuir adsorption isotherms for pDNA binding to a range of amounts of silica in MidiPure IMCStips across multiple binding cycles. The figure illustrates the relationship between the number of binding cycles and the amount of pDNA eluted (n = 3). The amounts of silica packed in the IMCStips are 50 mg, 100 mg, 150 mg, and 250 mg (A-D). Dashed lines: fitted data; circles: data collected.

**Table 1.** Yield and purity of pDNA across different cell densities. (n = 4)

OD <sub>600</sub>	pDNA concentration (ng/µL)	Amount pDNA (µg)	260/280	260/230
20	65 ± 2	39 ± 1.3	1.84 ± 0.01	2.18 ± 0.08
30	69 ± 6	41 ± 3.5	1.85 ± 0.00	2.19 ± 0.06
50	92 ± 1	55 ± 0.4	1.85 ± 0.01	2.22 ± 0.05
80	111 ± 2	66 ± 0.9	1.90 ± 0.01	2.28 ± 0.05
100	113 ± 5	68 ± 3.1	1.90 ± 0.01	2.29 ± 0.02

**Table 2.** Plasmid yield and purity comparing MidiPure IMCStips and a midi spin column.

Sample ID	ng/µL	µg	260/280	260/230
One MidiPure IMCStips® [n = 8]	194 ± 6	117 ± 4	1.89 ± 0.01	2.06 ± 0.04
Midi Spin Column [n = 4]	419 ± 15	251 ± 9	1.89 ± 0.01	2.20 ± 0.01

## JUMP-START YOUR PROJECT

Get your new method running in **one week!**



Technical Discussion



IMCS Application Scientists create script



Script install & user guidelines provided



Test & validate new method



Relax while your application runs!

**Ready to simplify your sample prep?  
Contact us for a FREE sample of IMCStips today!**

[www.imcstips.com](http://www.imcstips.com)

[inquiries@imcstips.com](mailto:inquiries@imcstips.com)

+1 (888) 560-2073