AutoPlasmid MMG

Automated Large Scale Plasmid Purification

Fully Automated Maxiprep, Megaprep & Gigaprep Plasmid DNA Purification

The PhyNexus AutoPlasmid MMG is the industry's first and only fully-automated bench-top instrument for transfection grade plasmid purification at the maxiprep, megaprep and gigaprep scales. The automated 2-channel instrument delivers a robust and flexible solution capable of working with rich media, using one-touch or customizable methods, and delivering maxi, mega or giga prep scale transfection grade plasmids.



Easy To Use

Use your cell pellets with our disposable kits that only take 10 minutes to set up, then hit 'Start" & walk away until plasmids are ready.

Get Plasmid In Hours

Get purified plasmids within hours in your lab. No more waiting for costly outsourcing.

Maxi, Mega & Giga Scales

Maximum yields of 1.5 mg for Maxiprep, 5 mg for Megaprep and 10 mg for Gigaprep.

Cost Benefits

Less than 1/3 the cost of outsourcing.
Minimal biology experience needed to operate.

Transfection Grade Plasmids

Highly pure transfection grade low-endotoxin plasmid DNA for every scale.

Advanced Silica Chemistry

No alcohol precipitation needed; ready to go plasmid DNA. Dual Flow Chromatography

Increased Productivity

Work on your other projects and research while your plasmids are being prepared.

Consistent Sample Quality

Automation provides process repeatability, precision, reliability, and consistent results.

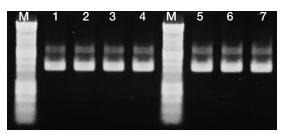
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ি PhyNexus



Kit	Throughput/Day (with Overnight Run)	Culture Volume	Maximum Plasmid Mass	Typical Plasmid Mass	Technology	Method
Maxiprep	12	150 - 500 mL	1.5 mg	0.75 mg	Silica	Automated
Megaprep	8	1 - 1.5 L	5.0 mg	3.5 mg	advanced chemistry	dual-flow chromatography
Gigaprep	4	2 - 3 L	10.0 mg	7.0 mg	Chemistry	Ciliomatography

^{*}Actual yield is dependent on the plasmid copy number, culture growth conditions, strain of E. coli utilized, and culture volume processed.



Top: Plasmid DNA (100 ng) was visualized on a 0.8% agarose gel run for 20 minutes at 70V. Maxiprep plasmid eluent was added to lanes 1-4. Megaprep plasmid eluent was added to lanes 5 -6, and Gigaprep plasmid eluent was added to lane 7. Lane M was a 1 Kb DNA ladder.

Right: Plasmid DNA isolation (GFP cloned into pUC19) from E.coli DH5a using PhyTip Columns on the AutoPlasmid MMG. For the isolation of Maxiprep, Megaprep, and Gigaprep samples, 500 mL, 1 L, and 2 L TB cultures were used.

Spectroscopic analysis was done using a Nanodrop ND-1000.

Maxiprep Results					
Sample	Elution Volume (mL)	Concentration (mg/mL)	Yield (mg)	A260/A280	A260/A230
Maxi #1	0.85	1.20	1.02	1.87	2.04
Maxi #2	0.88	1.29	1.13	1.82	2.09
Maxi #3	0.86	1.10	0.94	1.91	2.13
Maxi #4	0.90	1.07	0.96	1.89	2.10

Megaprep Results						
Sample	Elution Volume (mL)	Concentration (mg/mL)	Yield (mg)	A260/A280	A260/A230	
Mega #1	2.77	1.01	2.78	1.83	2.11	
Mega #2	2.92	0.98	2.84	1.82	1.99	

Gigaprep Results						
Sample	Elution Volume (mL)	Concentration (mg/mL)	Yield (mg)	A260/A280	A260/A230	
Giga #1	9.83	0.74	7.23	1.86	2.20	



Pre-Aliquoted Buffer System

Easy to use sample preparation kits are color coded and pre measured for each scale. It only takes about 5-10 minutes of hands-on time to set up the instrument, pour in the prepared sample and start a run on the AutoPlasmid MMG instrument. At the end of the run, your transfection grade plasmids are deposited in vials and are ready for use.

To learn more, visit www.phynexus.com/mmg

