

AmMag™ Quatro Mini - 1100

Fully automated,
mini-scale plasmid purification



Leveraging decades of expertise in magnetic bead technology, GenScript introduces the AmMag™ Quatro 1100 - a fully automated magnetic bead purification system. This advanced system features four modules, each capable of purifying up to 48 samples per run, accommodating sample volumes ranging from 1 to 10 mL. With customizable programs tailored to various sample types, the system delivers fast, reproducible, and highly consistent results.



Low Endotoxin

Designed for plasmid extraction, this system delivers high-purity, low-endotoxin, transfection-grade plasmids.



High Consistency

Ensures consistent plasmid yield, supercoiling, and endotoxin levels across all samples.



High Throughput

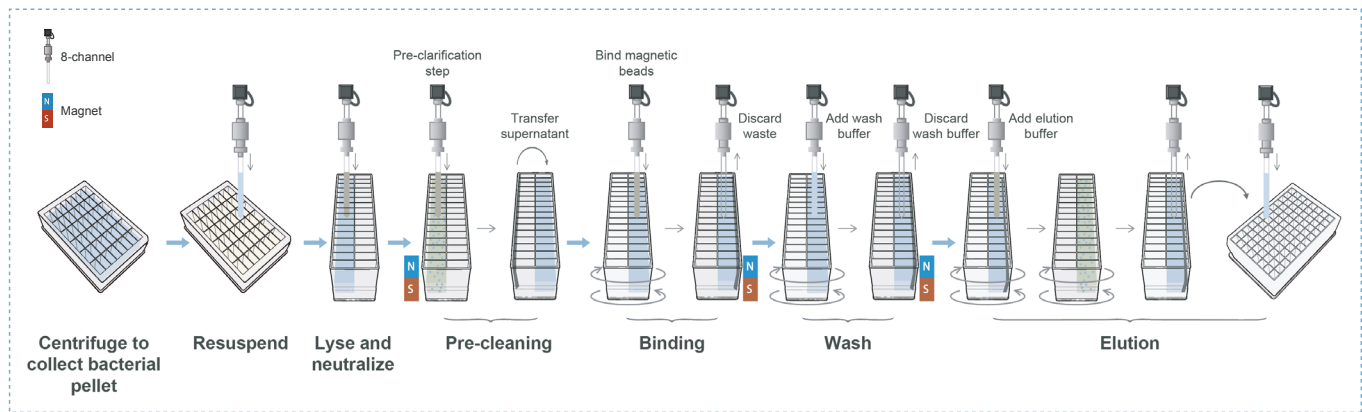
Equipped with four automated modules, capable of purifying up to 192 samples (4×48) within 90 minutes.



Fully Automated

Streamlines the entire extraction process, from sample input to final product, eliminating the need for manual intervention

Extraction Workflow



Case Studies

▶ Application Example 1: Comparison of AmMag™ Quatro Mini 1100 and Manual Extraction

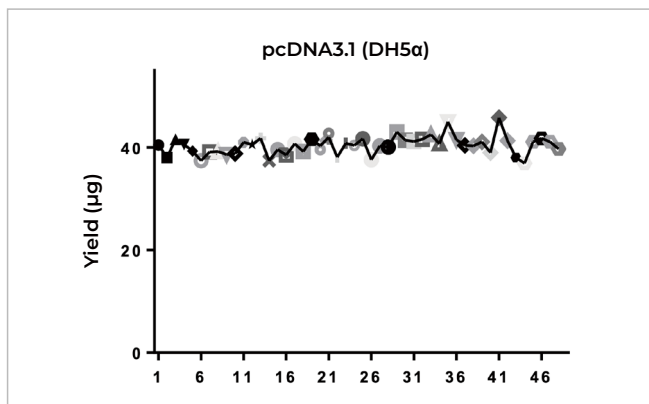
Plasmid: pTT5; Bacterial Strain: JM108; Culture Medium: TB; Culture Time: 16 hours; Bacterial Solution ODV: 17

No.	Extraction Method	Concentration (ng/μl)	Yield (μg)	OD260/280	OD260/230	Endotoxin (EU/mg)	Supercoiling
1	Quatro 1100	279.7	31.6	1.88	2.30	100-200	96.2%
2	Manual	175.8	20.5	1.88	2.14	>20 w	95.4%

AmMag™ Quatro Mini 1100 delivers comparable plasmid DNA concentration, yield, purity, and supercoiling to manual extraction, while offering lower endotoxin levels, making it ideal for downstream applications.

▶ Application Example 2: Uniformity Testing Using the Same Bacterial Culture (ODV16) in a 48-Well Plate

Plasmid: pcDNA3.1; Bacterial Strain: DH5 α ; Culture Medium: TB; Culture Time: 16 hours; Bacterial Solution ODV: 16



The AmMag™ Quatro Mini 1100 can purify 48 samples per run, delivering consistent quality pDNA with high yield, excellent supercoiling, and low endotoxin levels, making it ideal for downstream transfection applications.