

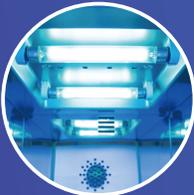
Fully Automated Maxi-Scale Plasmid Purification

AmMag™ Quattro



Scalable

Modular design provides throughput scalability with individual module operation, with each module purifying up to 6 samples



UV

Programmable decontamination protocol



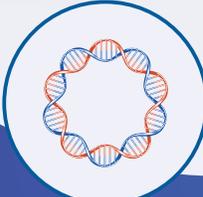
Out-of-the-Box Solution

Solution includes AmMag™ kits and verified protocols



Efficient

Purify up to 24 samples with a 4 module setup in ~2 hours



High Quality Plasmid

High yield, low endotoxin, transfection grade plasmid DNA



Automated Maxi-Scale Plasmid Purification

The AmMag™ Quatro: Your automated solution for maxi-scale purification of high-quality, transfection-grade plasmids. This comprehensive system features a centralized controller enabling simultaneous operation of up to 4 independent purification modules, complemented by pre-filled consumables and validated protocols. Each module efficiently processes up to 6 samples in just 2-2.5 hours per run, ensuring streamlined and reliable plasmid purification at scale.

► Plasmid Extraction with AmMag™ Quatro Solution

Plasmid : pCDNA 3.1 Strain: DH5a Culture Medium: 100 ml TB Culture Growth: 16 hours Bacteria Pellet Weight: ~1.4 g Elution Volume: 800 µl

| Sample | Extraction Method | Concentration(ng/µL) | OD260/280 | OD260/230 | Endotoxin | Supercoiled Ratio |
|--------|-------------------|----------------------|-----------|-----------|------------|-------------------|
| 1 | Quatro | 932.95 | 1.89 | 2.27 | <100 EU/mg | >90% |
| 2 | Quatro | 949.65 | 1.88 | 2.36 | <100 EU/mg | >90% |
| 3 | Quatro | 887.45 | 1.89 | 2.35 | <100 EU/mg | >90% |

Test results show the AmMag™ Quatro solution yields high quality transfection-ready plasmids with low endotoxin levels.

► Comparing Plasmid Extraction with AmMag™ Quatro Solution and Manual Kit

Plasmid : pCDNA 3.1 (+) C-EGFP Strain: DH5a Culture Medium: TB Culture Growth: 16 hours
Bacteria Pellet Weight: ~1.4 g (Quatro) ~0.4 g (Manual kit - maximum pallet used while not clogging the column)

| Sample | Extraction Method | Elution Volume | Concentration(ng/µL) | OD260/280 | OD260/230 | Endotoxin | Supercoiled Ratio |
|--------|-------------------|----------------|----------------------|-----------|-----------|------------|-------------------|
| 1 | Quatro | 500 µl | 947.01 | 1.86 | 2.33 | <100 EU/mg | >90% |
| 2 | Manual | 500 µl | 380.68 | 1.88 | 2.35 | <100 EU/mg | >90% |

Test results show the AmMag™ Quatro solution yields equivalent amount of purified plasmid to a manual kit with high quality and low endotoxin levels.

► Transfection with AmMag™ Quatro Purified Plasmid

pTT5-EGFP plasmid was purified using the AmMag™ Quatro solution, followed by transfection into the HEK 293 T cell line. Transfection efficiency was assessed using flow cytometry to detect the expression levels of EGFP.

The test results indicate that the number of cells expressing EGFP following transfection with the plasmid purified using the AmMag™ Quatro system was comparable to those obtained using the manual plasmid purification kit.



Product Ordering Information

| Product | Cat. No. |
|---|-----------|
| AmMag™ Quatro System Controller | D00018 |
| AmMag™ Quatro Automation Module | D00019 |
| AmMag™ Quatro Plasmid Purification Kit Maxi 24 prep – Elution: H2O – 24 samples | L00882-24 |
| AmMag™ Quatro Endo-Free Plasmid Purification Kit Maxi 24 prep – Elution: H2O – 24 samples | L01031-24 |



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