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

## AveGene Plasmid Midi/Maxi Kit

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### Product Summary

AveGene Plasmid Midi/Maxi Kits uses pre-packed anion-exchange resin column to purify plasmid or cosmid DNA from bacterial cultures. In the process, the modified alkaline lysis method and RNase treatment are used for cleared cell lysate with minimal genomic DNA and RNA contaminants. By a gravity-flow procedure, the plasmid DNA in crude lysate has been bound to the column. The contaminants can be washed off with the wash buffer. Finally, the purified plasmid DNA is eluted by a high salt buffer and then precipitated with isopropanol for desalting. The entire procedure can be completed in 2 hours without ultracentrifuges and HPLC or other toxic reagents.

### Quality Control

In accordance with ATGCell's ISO-certified Total Quality Management System, each lot of AveGene Plasmid Kit is tested against predetermined specifications to ensure consistent product quality.

### Storage

ATGCell AveGene Plasmid Kits should be stored at room temperature (15-25°C). After adding RNase A, buffer P1 should be stored at 2-8°C and is stable for 6 months. Other buffers and RNase A stock solution can be stored for 2 years at room temperature.

### Ordering

Products	Cat. No.	Size
Plasmid DNA Extraction Midi Kit	ATGC-NA027	25 preps
	ATGC-NA028	10 preps
Plasmid DNA Extraction Maxi Kit	ATGC-NA029	25 preps
Plasmid DNA Extraction Midi Kit--Endotoxin Free	ATGC-NA030	25 preps
	ATGC-NA031	10 preps
Plasmid DNA Extraction Maxi Kit--Endotoxin Free	ATGC-NA032	25 preps

# ATGCell AveGene Plasmid Midi/Maxi Kit

**Sample:** 50-300 ml bacterial culture

**Format:** ion-exchange resin column

**Operation:** gravity-flow

**Binding capacity:** 200 µg/ 500 µg

**Purity:** equal to that obtained by 2x  
CsCl-gradient centrifugation

**Operation time:** 120 minutes

**Applications:** Transfection, Micro-  
injection, Restriction digestion



## Cell Culture

Incubation  
Harvesting



## Alkaline Lysis

Resuspension  
Lysis  
Neutralization



## Gravity Flow

Column Equilibration  
DNA Binding  
Wash  
DNA Elution



## DNA Precipitation

Isopropanol Precipitation  
Resolution

<u>Kit</u>	<u>Recommended culture volumes</u>		<u>Expected yield</u>
	High-copy plasmid	Low-copy plasmid	
Midi	25-50 mL	50-150 mL	up to 200 µg
Maxi	50-150 mL	150-300 mL	up to 500 µg