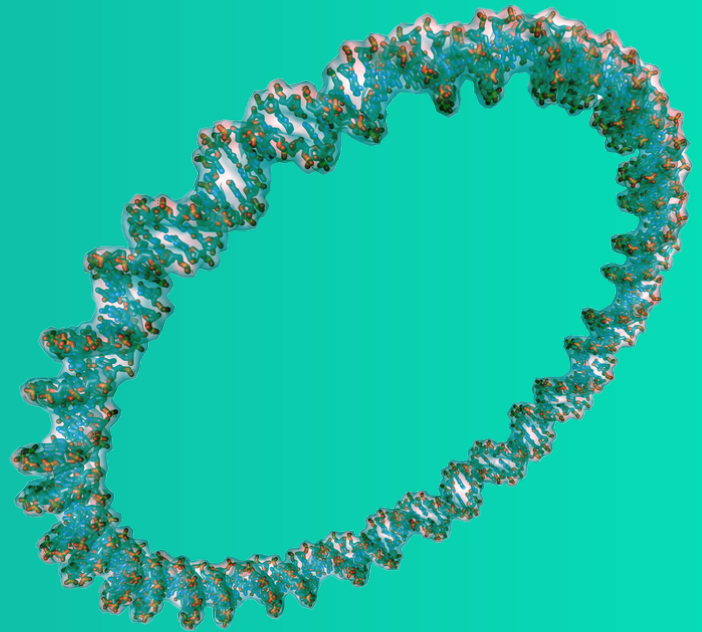


PLASMID PREPARATION SERVICES



Culture and
Amplification



Bacteria Lysis



DNA Purification



Quality Control



Delivery

EXPERIENCE THE **DIFFERENCE**

Experience: Years of expertise in providing plasmid DNA preparation services to research institutes, biotechnology, and biopharmaceutical industries.

Quality Control: Rigorous quality control measures ensure aseptic plasmids free from RNA and genome pollution.

Safety: All plasmids are free from animal-derived materials.

Endotoxin Levels: Guaranteed low levels of endotoxin (< 100EU/mg, <30EU/mg, <5EU/mg, as per request).



OUR **PLASMID PRODUCTS**

Research Level: Suitable for general research applications.

Transfection Level: Designed for specialized applications, including but not limited to:

- Transfection
- Antibody Preparation
- Vaccine Development
- Gene-Therapy Research

SERVICE SPECIFICATIONS

	Research Grade	Transfection Grade
Endotoxin Level	N / A	<ul style="list-style-type: none"> Standard grade: <100 EU/mg, <30 EU/mg Preclinical grade: <10 or <5 EU/mg
Quantity	2 ug to gram level	20 ug to gram level
Turnaround time	Starting at 2 business days	Starting at 2 business days
Quality Control	<ul style="list-style-type: none"> Restriction enzyme analysis Sanger sequencing (Optional) 	<ul style="list-style-type: none"> Basic quality control tests Sterility assurance Restriction enzyme analysis Endotoxin control Sanger sequencing (Optional) Mycoplasma test (Optional)
Recommended Applications	<ul style="list-style-type: none"> Standard DNA manipulations including gene cloning, PCR template, DNA marker, DNA library Transient protein expression and protein expression test DNA storage Genome editing tools Large-scale genome research 	<ul style="list-style-type: none"> <i>in vitro / in vivo</i> transfection Large scale protein expression Viral Packaging Cell therapeutic material Preclinical trials in gene therapy or vaccination Long-term DNA storage
Standard Delivery Package Contains	Prepared lyophilized plasmid DNA (default conc. ~1mg/mL), Certificate of analysis (COA), and QC report	

QUALITY CONTROL

QC Items	Method	Specifications	Default QC Research Grade	Default QC Transfection Grade
Appearance	Visual inspection	Clear, colorless, free from visible particulates.	√	√
A 260/280 Ratio	UV Absorbance	1.80 ~ 2.00.	√	√
Quantity	UV Absorbance	Quantity is ± 5%.	√	√
Residual RNA	Agarose gel electrophoresis	Not visible	√	√
Genomic DNA	Agarose gel electrophoresis	Not visible	√	√
Fragment Size	Restriction Digestion	The size of plasmids fragment is right and free of any contaminated bands.	√	√
Endotoxin control	TAL assay	< 100EU/mg	x	√
Supercoil content	Agarose gel electrophoresis	Supercoil content >90%	x	√
Bioburden	Streak inoculation	No growth after 48 hours.	x	√
Mycoplasma	Streak inoculation	No mycoplasma is detected in the plasmid products.	x	x
Sequencing	Whole plasmids sequencing	Sequencing results are consistent with the confirmed plasmid sequence.	x	x