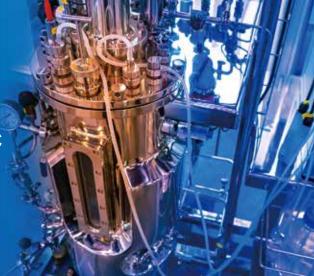
Preclinical Grade Plasmids

With the most comprehensive and stringent QC Tailored for preclinical studies



GenScript offers preclinical grade plasmids with the most comprehensive and stringent quality specifications and analysis for your preclinical project needs. Ideal for **preclinical** *in vivo* animal studies, from mice to non-human **primates**, in gene therapy, cell therapy, and vaccine research. Available in quantities of 10 mg and up.



Comprehensive QC

- Highly homogenous (≥90% supercoiled)
 - Endotoxin free (≤0.005 EU/μg)
- Quantitative bacterial DNA & protein analysis



Animal-Free Production

- Plant based culture media
- Enzyme-free chromatographic purification
 - TSE/BSE Certificate



Guaranteed Quantity

- From mg to multi-gram level
- High density fermentation
 - Material archiving

	QC Item	Analytical Method	Specification	
Default QC Items	Appearance	Visual inspection	Clear, colorless, no visible particulates	
	A260:280	Nanodrop UV absorption	1.8-2.0	
	Identity	Sequence verification of gene insert	100% alignment	
	рН	pH meter	8.0±0.5 (in TE buffer)	
	Restriction Analysis	Enzyme digestion	Conforming to reference pattern	
	Homogeneity	Agarose gel electrophoresis	≥ 90% supercoiled	
	Endotoxin	Quantitative LAL assay	≤0.01 EU/ug	
	Residual E. coli DNA	Quantitative PCR	≤ 5%	
	Residual RNA	Agarose gel electrophoresis	Non-detectable at 200ng	
	Residual Host Protein	HCP ELISA	≤ 1%	
	Bioburden Testing	Direct incubation	No growth after 48 hours	
Add-On QC Items	Advanced Endotoxin Removal	Quantitative LAL assay	≤0.005 EU/ug	
	Mycoplasma Contamination	Luminescence detection kits	Negative	
	Detection of Kanamycin	ELISA	<1.125 ng/ml	



GenScript Plasmid DNA Preparation

One Stop Solution from R&D to Clinical Studies

Comparison of GenScript's Various Plasmid Prep Solutions

Service Grade	Rush Grade	Research Grade	Industrial Grade	Preclinical Grade		
Appearance	\checkmark					
A260:280	\checkmark					
рН	-	-	-	V		
Restriction Analysis	-	-	V	\checkmark		
Full Insert Sequencing	-	V	V	\checkmark		
Homogeneity	Predominantly supercoiled		≥ 90% supercoiled			
Endotoxin	-	-	Gel clot LAL assay <0.01 EU/ug	Quantitative LAL assay <0.01 EU/ug		
Residual RNA	Non-detectable by gel electrophoresis at 200ng					
Residual E. coli DNA	Non-detectable by gel electrophoresis			Quantitative PCR ≤ 5%		
Residual Host Protein	-	-	-	HCP ELISA ≤ 1%		
Bioburden Testing	-	V	V	\checkmark		
Animal Free Production	Optional	Optional	Optional	Optional		
Enzyme Free production	-	-	-	Optional		
Advanced Endotoxin Removal <0.005 EU/ug	-	Optional	Optional	Optional		
Mycoplasma Contamination	-	-	-	Optional		
Detection of Kanamycin	-	-	-	Optional		
Material Archiving	-	-	-	Optional		

Interested in GMP plasmids? GenScript has GMP capability as well!

Contact us for details. Email: bioassay@genscript.com

