



# Plasmid DNA Manufacture Services

## Features and Advantages

- Low Endotoxin content
- High supercoiled proportion
- Stringent quality system and lot release specification
- Stable product delivered in lyophilized powder and can be conveniently resolved.

## Applications and Service Scale

IT offers customized plasmid manufacture services at milligrams to grams scales using IT's unique and proprietary process that has been fully validated through the cGMP manufacture of clinical grade plasmid products. Plasmid DNA purified by IT is suitable for:

- Preclinical studies of DNA vaccine or gene therapy including toxicology and biodistribution studies
- DNA vaccine research
- Gene therapy research
- Transfection experiments
- Other research applications

## Quality Control and Lot Release Specifications

IT produce and deliver plasmid DNA of DNA-Gold and DNA-Platinum grades that meet your highest quality demands for the purpose of transfection, animal immunization and preclinical studies for DNA vaccine or gene therapy products.

Table 1

Test	Lot Release Specification for DNA- <u>Gold</u> Grade	Lot Release Specification for DNA- <u>Platinum</u> Grade	Extra Charge
Appearance	Clear, no foreign particles	Clear, no foreign particles	No
A <sub>260</sub> /A <sub>280</sub>	1.75-2.0	1.75-2.0	No
Percentage of Supercoiled DNA (Agarose gel)	Predominantly Supercoiled	≥ 80% Supercoiled guaranteed	No
Identity (Restriction analysis)	Co-migrates with standard or as specified by client	Co-migrates with standard or as specified by client	No
RNA residual	Not detectable on agarose gel	Not detectable on agarose gel	No
<i>E.coli</i> Genomic DNA (Slot Blot or Real-time Q-PCR)	≤ 20µg/mg plasmid	≤ 2µg/mg plasmid	No
Host Cellular Protein (ELISA or BCA)	≤ 20µg/mg plasmid	≤ 1µg/mg plasmid	No
Endotoxin (LAL)	≤ 100EU/mg	≤ 5EU/mg	No

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## Additional Quality Tests

Additional quality tests are also available from IT QC team. Extra charges are required for the QC service listed below.

Table 2

Quality Test	Method	Price
Bioburden Assay	LB agar plate	\$100
Gene Expression	Western blot (with specified antibody from IT or client)	Please inquire
Humoral Immunity	ELISA (with specified antigen from IT or client)	Please inquire
Cellular Immunity	ELISPOT or ICS (with specified peptides from IT or client)	Please inquire
Your Test	Your choice	Please inquire

## Order Information

Table 3

Scale	DNA- <u>Gold</u> Grade		DNA- <u>Platinum</u> Grade	
	Cat. No	Price*	Cat. No	Price*
5 milligrams	IT-D005G	\$598	IT-D005P	\$1198
10 milligrams	IT-D010G	\$898	IT-D010P	\$1998
20 milligrams	IT-D020G	\$1598	IT-D020P	\$2998
100 milligrams	IT-D100G	\$4998	IT-D100P	\$9998
> 100 milligrams		Please inquire		Please inquire
1 liter	IT-L001G	\$498		
5 liters	IT-L005G	\$1998		
10 liters	IT-L010G	\$3598		

\*Note: Price including the tests listed in Table 1.

Yield for volume-based order is not guaranteed and depend on the characteristic of individual plasmid. Guaranteed Yield is for high-yield plasmid (>3 mg/liter of LB).

**Please indicate the origin of replication of your plasmid on the order-form.**