



RD-BIOTECH

RD-BIOTECH is a French biotechnology company providing customized services in Molecular Biology, Immunology and Cell Engineering for Research & Development, preclinical and clinical programs.

Since its creation in 2002, RD-BIOTECH has provided technical expertise and scientific know-how to deliver personalized, responsive and high-quality services with full confidentiality.

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MADE IN 

We operate according to high quality standards, and have the Research Tax Credit (CIR) accreditation.



MOLECULAR BIOLOGY PLATFORM

Your Trusted Partner for
Plasmid DNA Design,
Cloning & Manufacturing



**YOUR GOALS
YOUR BUDGET
OUR EXPERTISE
OUR SOLUTIONS**



PLASMID ENGINEERING AND MANUFACTURING

Empowering innovation with trusted plasmid DNA solutions for advanced Gene therapy (AAV), Cell therapy, CAR technologies (LV) and mRNA applications.



Molecular Design & Engineering

- Design, Optimization & Gene synthesis
- Custom Molecular Cloning Strategies
- Expertise on difficult constructs: Large inserts, PolyA tails, Unstable sequences, Repetitive regions, Low copy plasmids, etc.

Plasmid Production Research Grade

- Plasmid amplification and purification
- Pilot production & Scale-up, batches from 10 µg up to several Grams
- RNA preparation by *in vitro* transcription (small scale R&D batch)
- Flexible workflows

Plasmid Production High Quality Grade

- Reliable, Fast, and Cost-effective solution
- From 5 mg to Grams Scale
- High purity plasmid DNA for advanced applications
- Dedicated USP/DSP laboratories
- Compliant with ATMP pDNA starting material (EMA/246400/2021)

Plasmid Production GMP Grade

- 30 L bioreactors (x2)
- Multi-gram production scale
- From bacterial cell bank to purified supercoiled or linearized plasmid
- ISO classified production suites
- Fill & finish operations under isolator
- GMP part II compliant



Expertise
> 1.500 pDNAs/year



Short
delivery times



Circular &
Linearized
pDNAs



Traceability &
Regulatory
support

DRUG
DISCOVERY

PRECLINICAL
STUDIES

CLINICAL
STUDIES

MARKET



RESEARCH GRADE



HIGH QUALITY GRADE



GMP GRADE



QC & ANALYTICAL PLATFORM

Plasmid Identity & Integrity

Plasmid identity & sequencing
Supercoiled rate (HIC or CGE)
Cell Bank & plasmid stability studies

Purity & Safety Testing

Residual RNA / DNA / Proteins, Endotoxins
Mycoplasma / Sterility / Bioburden

Physicochemical Characterization

pH / Osmolality