



CERASP

Center for Expertise in Applied Research
for the Pharmaceutical Sciences

RNA SERVICES

Versatile. Expert. Aware.

CERASP provides specialized support to RNA-focused biotechs, startups, and researchers by offering services that accelerate the development and production of advanced biomanufactured therapeutics. This includes expertise in vaccines as well as delivery systems critical for the effective delivery of RNA-based drugs. Through technical resources, infrastructure, and industry know-how, CERASP helps innovators bring RNA therapeutics from concept to market more efficiently.

PHARMACEUTICALS PRODUCED BY BIOMANUFACTURING

ADVANCED THERAPIES

CERASP offers specialized R&D services to support the development of advanced therapies, including mRNA vaccines, gene silencing technologies (siRNA and antisense oligonucleotides), and lipid nanoparticle delivery systems. Our capabilities span from early-stage research to process development, enabling biotech companies and startups to accelerate innovation and bring RNA-based therapeutics closer to market.

| mRNA VACCINES (e.g., COVID-19 VACCINES)

| siRNA & ANTISENSE OLIGONUCLEOTIDES (GENE SILENCING)

| CELL THERAPIES (CAR-T, STEM CELL THERAPIES)

| GENE THERAPIES (CRISPR, VIRAL VECTORS)

SPECIALTY BIOPOLYMERS & DELIVERY SYSTEMS

| LIQUID NANOPARTICLES (RNA & DRUG DELIVERY)

| CO-ENCAPSULATION OF DRUGS AND RNA

BIOMANUFACTURING STEPS AT CERASP

ADVANCED PROCESSING

- Industrial Commercial Sample
- ↓
- Cell Thawing and Revitalization
- ↓
- Cell Expansion
- ↓
- Inoculation Medium Preparation
- ↓
- Production in a Bioreactor



DOWNSTREAM PROCESSING

- Harvesting and Centrifugation (Cell/medium)
- ↓
- Purification and Filtration
- ↓
- Formulation and Cell Distribution
- ↓
- Packaging and Conditioning

FACTS

- Bioreactors with various capacities (2-30L)
- Single-use Bioreactors Available
- BSL-2 Security Level
- ISO 8/7 Room
- Process Optimization and Scale-Up
- Bioinformatics (e.g., RNA Analysis, RNA-seq Data Reprocessing, etc.)

TRAINING PROGRAMS

ADVANCED THERAPIES CERTIFICATE

LEARN BIOMANUFACTURING TODAY!

GOOD MANUFACTURING PRACTICES

Contact us today to discuss how we can help you.

info@cerasp.ca

263-362-2760

7171, Frederick Banting

St-Laurent, Quebec

H4S 1Z9, Canada

cerasp.ca

ABOUT CERASP

CERASP is a non-profit organization whose mission is to provide applied research and technical support leading to technology transfer for the development of innovative solutions in the life science industry. We provide turnkey flexible solutions to help businesses in their product development path. From early-stage discovery to scale-up and technical transfer for GMP-ready production, we facilitate the commercialization journey by blending innovation with expertise.

