



TRANS
BIO
TECH

Catalyst of Innovation For Life Sciences Companies

Tailored assay, agile approach and state-of-the-art facilities to
accelerate innovative biotech companies

Expertise For RNA-based Therapeutics

RNA Delivery & Biodistribution

- In vitro analyses: live cell imaging (Incucyte), flow cytometry, RT-qPCR
- Histological analyses: local tissue reaction, antigen expression (IF/IHC)
- In vivo analyses: lipofectamine, formulation, delivery strategies, LNPs, using luciferase reporter & in vivo imaging (IVIS)

Immunogenicity

- **In vivo (multiple routes)**
- observations: Body weight, clinical signs, local irritation
- Antibody titers (ELISA), cytokines (flow cytometry, ELISpot)
- **In vitro dendritic cell-based assays**
- Evaluation of dendritic cells maturation by flow cytometry using cell surface activation markers
- Cytokines profiling (ELISA)

Efficacy & Mechanisms of Action

- In vitro functional assay: RNA interference, gene modulations (WB, qPCR, cytokine arrays)
- Reporter cell lines for pathway activity
- In vivo efficacy in rodent disease models using various route of administration (IV, IP, intratracheal, intraocular, cutaneous,...)

RNA-mimetics Detection

- Development of enzyme-linked oligonucleotide hybridization assay (ELOHA) for quantitative detection in fluids and tissues matrices
- Ideal for morpholinos or modified oligos

About Us

TransBIOTech is a Canadian research center specialized in biotechnology. We accelerate therapeutic innovation through flexible, tailored, in vitro and in vivo testing studies.

Our mission is to support startups, small and mid-size industry partners with the development of novel therapeutics or technology.

Custom Assay Development

We offer tailored solutions adapted to your therapeutic targets, technology, models, and experimental needs. Let's design the assay that fits your science.

Why Biotech SMEs Love Us?

- Expert guidance
- Flexible study designs
- No waiting list
- Affordable pricing
- No claim to the IP
- Access to non-dilutive funding through grants (Canadian companies only)

Contact Us

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www.transbio.tech