

Our Technology
for Your Innovation

Enhanced Quality Control of mRNA

We identify and analyze your drug candidates from unformulated and formulated **mRNA (lipid nanoparticles, LNPs)** for their translation efficiency, stability and biological activity. Using our cell-free system, we perform parallel, time-efficient screening of your mRNA constructs under confidential and GLP-compliant conditions.

We investigate translation efficiency and mRNA stability simultaneously. In combination with concurrent or subsequent cell-based assays, we analyze translation efficiencies, drug properties and specificity, as well as the cellular uptake and cellular interaction of mRNA or LNPs.

We develop customized mRNA analytic processes for you.

Open for R&D Collaboration
& Services

Industries



Biotech



Pharmaceuticals



Our Offer

mRNA Validation

- Rapid test for mRNA translatability
- *in vitro* mRNA translation in different lysate systems
- Identify the ideal sequence and modifications for your drug candidates
- Activity of the target protein
- Endosomal Escape & Uptake-Analysis

Testing mRNA/LNP Candidates for

- Selectivity
- Specificity
- Stability
- Impact of lipids
- Batch to batch variations

Further information

https://www.izi-bb.fraunhofer.de/de/Forschung_Entwicklung/zellfreie-und-zellbasierte-proteinsynthese.html

<https://www.izi-bb.fraunhofer.de/de/services/Wirkstoffentwicklung.html>

www.izi-bb.fraunhofer.de



Contacts

Dipl. Ing. Doreen Wüstenhagen
Cell-Free and Cell-Based Bioproduction
Tel. +49 331 58187-322

doreen.wuestenhagen@izi-bb.fraunhofer.de



Dr. Franziska Ramm
Cell-Free and Cell-Based Bioproduction
Tel. +49 331 58187-327

franziska.ramm@izi-bb.fraunhofer.de

