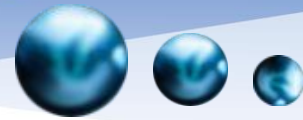


NanoGenerator[®] Nanoparticle Synthesis System and LipidFlex[™] Formulation

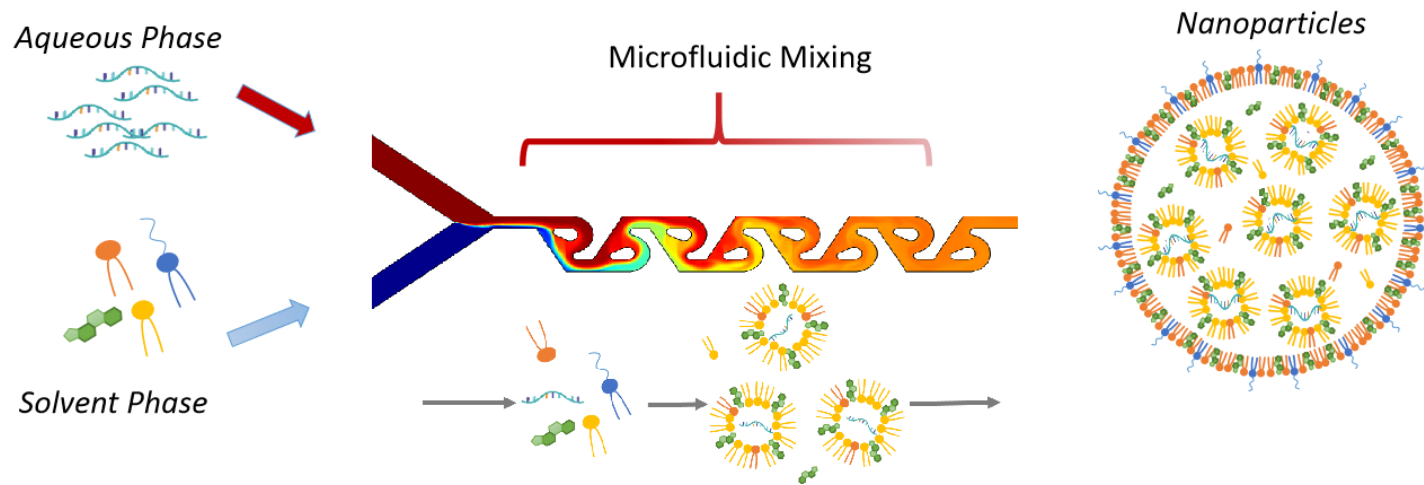
PreciGenome






Jan 2025

What are Lipid Nanoparticles?

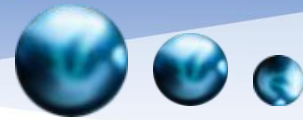


Lipid nanoparticles (LNP) are self-assembling structures of natural or synthetic lipids in aqueous environment.



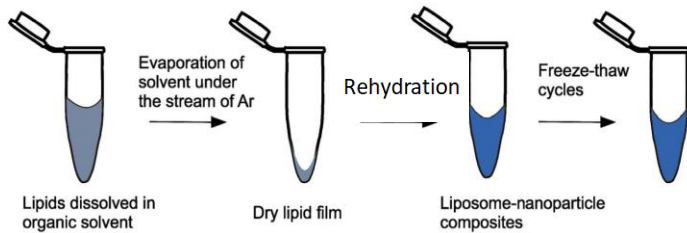
-  Cationic/ionizable lipid
-  Structural lipid
-  Cholesterol
-  PEGylated lipid
-  Nucleic acid payload

Lipid Nanoparticle Synthesis Methods



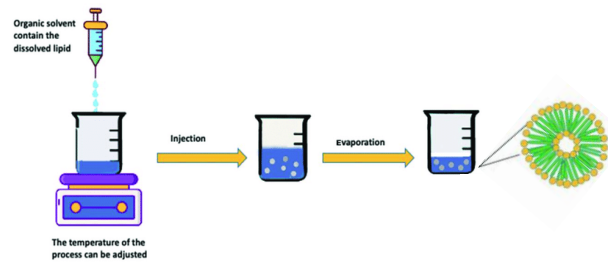
Conventional Methods

A Film hydration



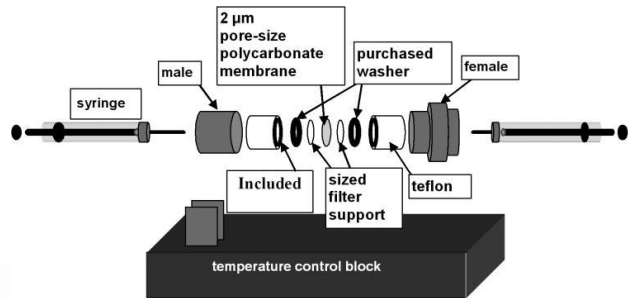
- Established method
 - Understood method
- High consuming of the organic solvent
 - High PDI
 - Lack of reproducibility
 - Need for additional downsizing step
 - Difficulties in scaling-up

B Solvent injection



- Simple and fast
 - Scaling-up possibility
- Exposing to organic solvent
 - High PDI
 - Stability problem

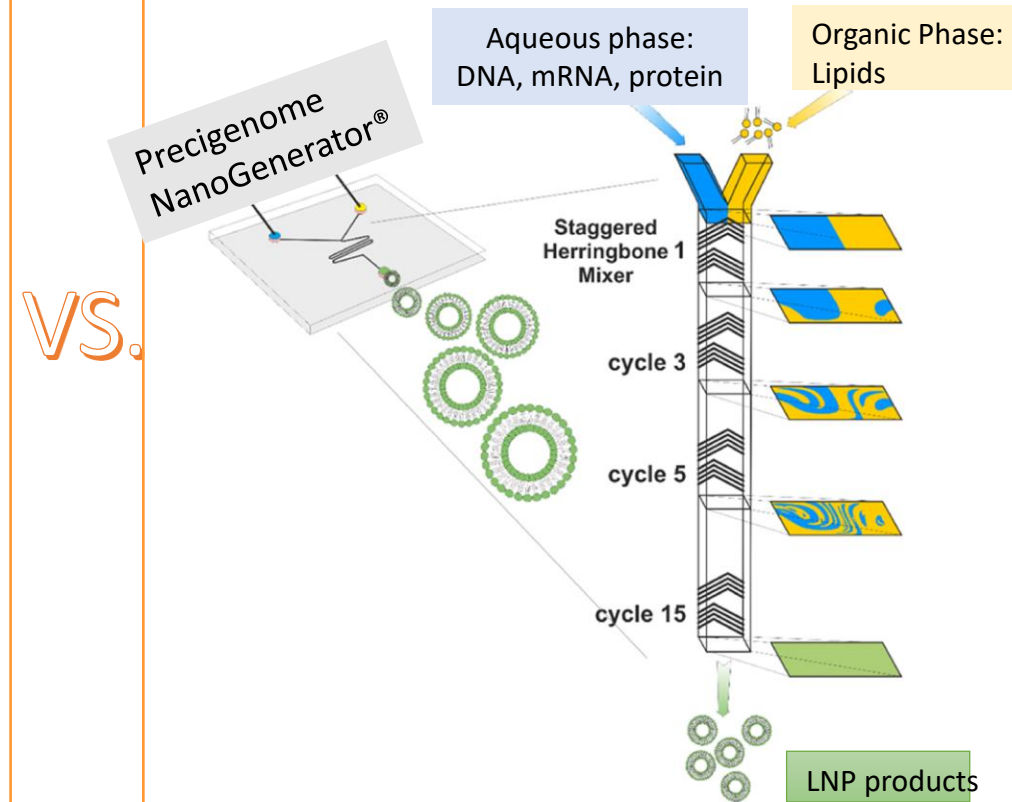
C Extrusion



- Uniform and homogenous formulation
- Possible clogging of the membrane pores
 - Difficulties in scaling up

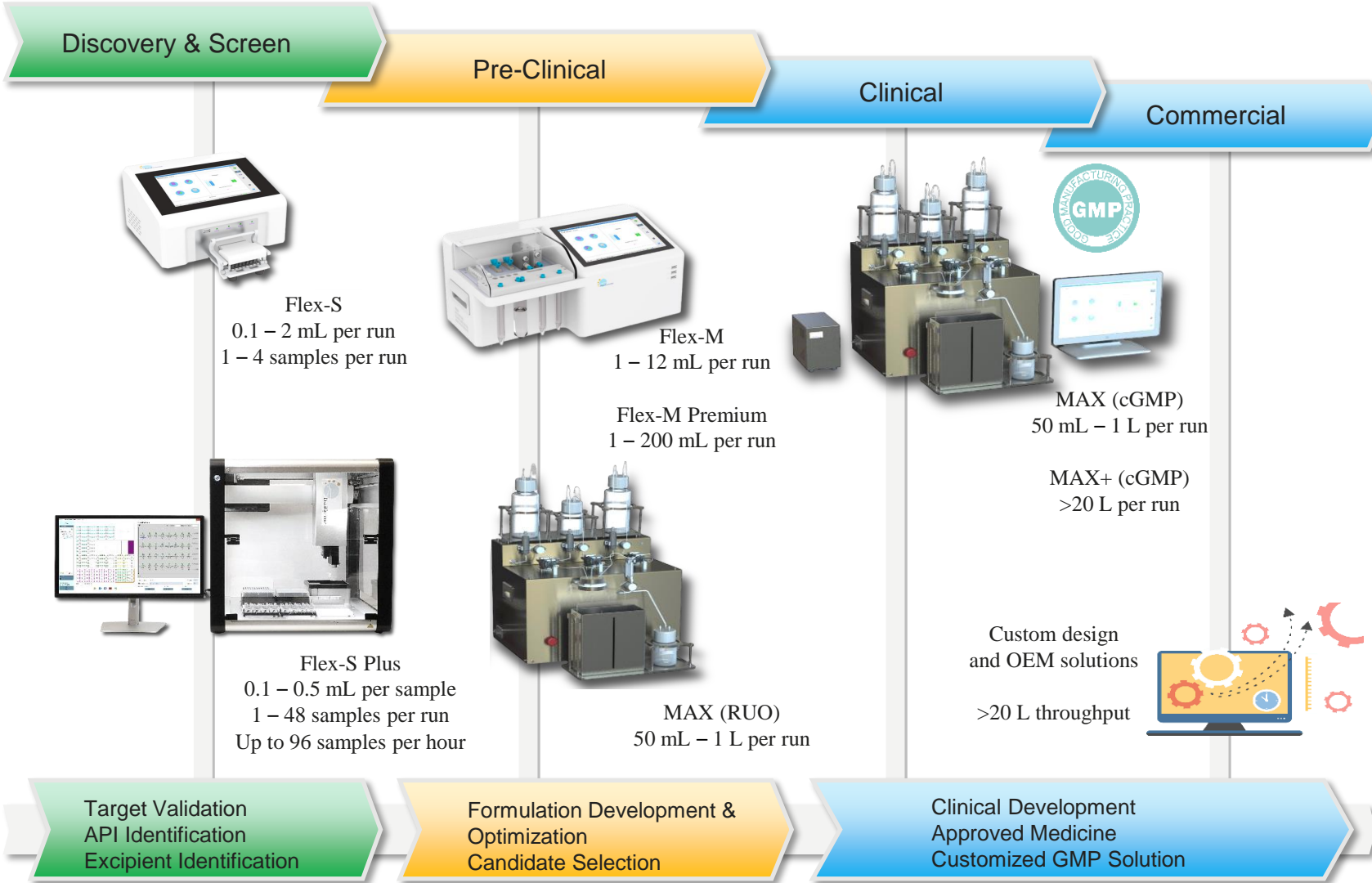
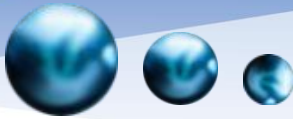
Nanomaterials, Volume 11, 2021, 3440

Microfluidic Mixer



Reference: Scientific Reports volume 10, Article number: 5595 (2020)

NanoGenerator[®] - Nanoparticle Synthesis System



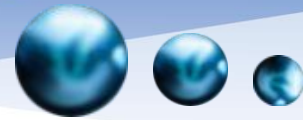


BASIC FEATURES

Product Model Number	Flex-S	Flex-S Plus	Flex-M	Flex-M Premium	MAX	MAX (40L/H)
R&D Stage	Screening & Discovery	Screening & Discovery	Screening & Discovery	Discovery & Preclinical Studies	Preclinical Studies & Development	Clinical Development & Production
Throughput	0.1 to 2 ml	0.1 to 0.5 ml	1 to 12 ml	1 to 200 ml	50 ml to 1 L	>20L
Multiple Samples Per Run	✓	✓	✗	✗	✗	✗
Max Flow Rate	3 or 4 ml/min	3 or 4 ml/min	5 ml/min	24 ml/min	4.8 L/h	40L/h
Flow Rate Ratio	3:1	3:1	1:1 to 5:1	1:1 to 10:1	1:1 to 9:1	1:1 to 5:1
Tunable Flow Rate Custom design		Custom design	✓		✓	✓
Intuitive & Easy To Use	✓	✓	✓		✓	✓
Inline Monitoring	Pressure	Pressure	Pressure & flow rate	Pressure & flow rate	Pressure & flow rate	Pressure & flow rate
Consumable Cost Per Run	\$	\$	\$		\$\$	\$\$\$
Dimensions (cm)	32×40×21	63×57×66	53×27×24	53×27×24	62×38×43	62×38×43
Weight	8.1 kg	50 kg	10.7 kg	10.7 kg	50 kg	65 kg



Scalable LNP Production



NanoGenerator® Flex-S/Flex-S Plus



Early Screening

0.1 – 2 ml (Flex-S)
0.1 – 0.5 ml (Flex-S Plus)

NanoGenerator® Flex-M/Flex-M Premium



Small/Medium
Production

1 – 12 ml (Flex-M)
1 – 200 ml (Flex-M Premium)

NanoGenerator® MAX (RUO)



Large production

50 ml – 1 L
Custom design for larger
volume

NanoGenerator® Max (cGMP)

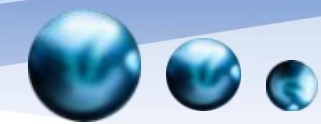


Commercial Production

50 ml – 1 L (MAX 4.8L/h);
> 20 L (MAX 40L/h)



NanoGenerator® Scaling Up



- Transferable results from early screening (Flex-S, 0.1mL) to pre-clinical development (Flex-M/M Premium, 12ml/200mL), then commercial production (Max: 1L, MAX 40L/h: >20L)



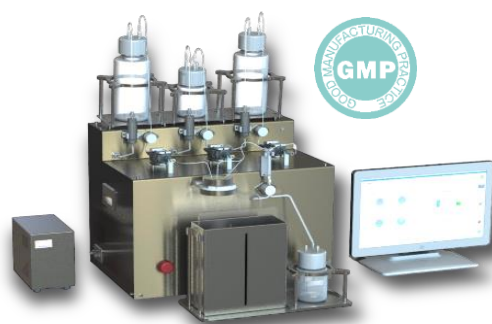
Flex-S: 0.1 – 2 ml
Flex-S Plus: 0.1 – 0.5 ml



Flex-M: 1 – 12 ml
Flex-M Premium: 1 – 200 ml

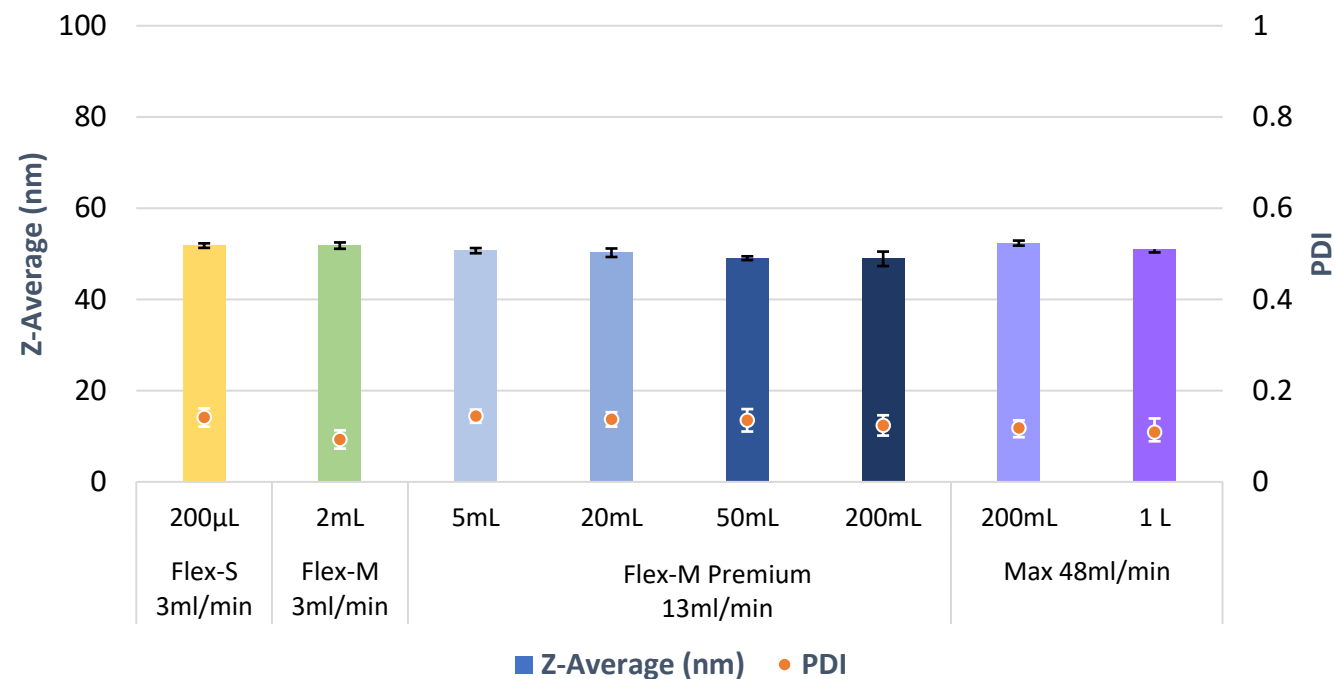


MAX RUO : 50 ml – 1 L



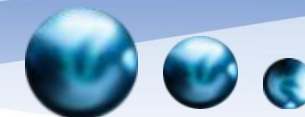
MAX cGMP (4.8L/h) : 50 ml – 1 L
MAX cGMP (40L/h): > 20 L

NanoGenerator® Scaling up

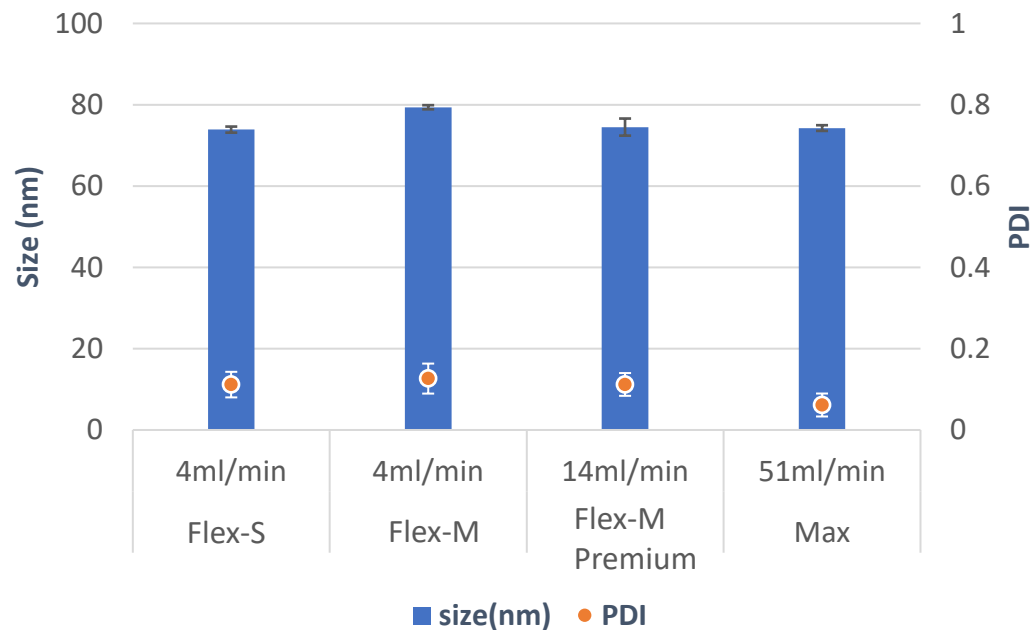


Reagents	
Aqueous phase	Sodium acetate buffer (100mM, pH5.2)
Solvent phase	LipidFlex, 15mM in ethanol

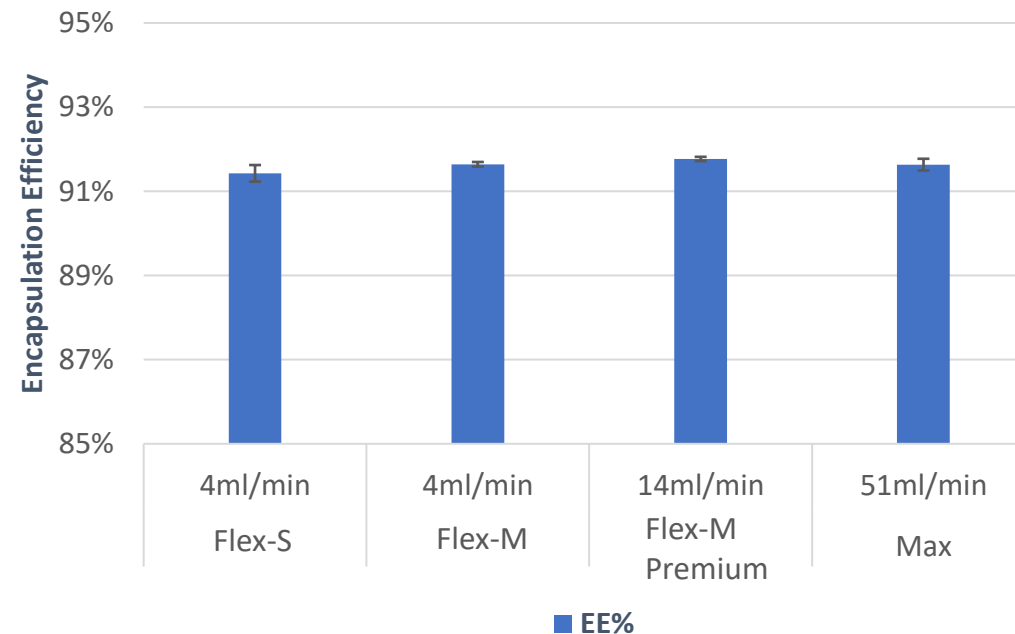
NanoGenerator[®] — Scale Up



RNA Encapsulation Scaling up

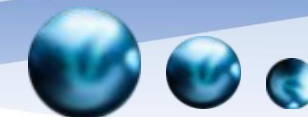


Encapsulation Efficiency (EE)



Reagents	
Aqueous phase	Sodium acetate buffer (100mM, pH5.2)
Payload	RNA (~600 nt)
Solvent phase	LipidFlex RNA-LNP kit

NanoGenerator[®] Flex-S

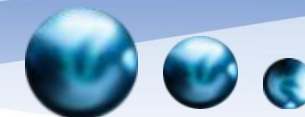


- 0.1 – 2mL synthesis volume per batch
- Tunable total flow rate (3ml/min & 4ml/min)
- Customized total flow rate & flow rate ratio available
- Multiple sample synthesis per run available
- Disposable consumables

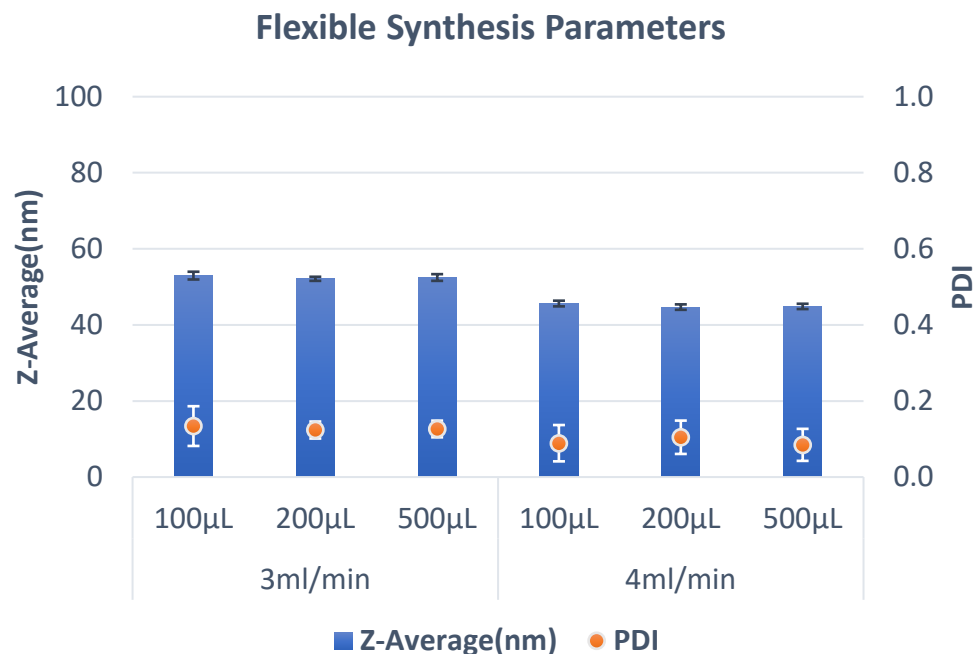


NanoGenerator[®] Flex-S

	NanoGenerator Flex-S	Syringe Pump Systems	Tubing Connection Systems
Dead volume per sample	< 20 µl	0.5 mL	0.5 - 1 mL
Source of dead volume	Micro-channel in the mixing Chip	Syringe, connector, and/or mixing chip	Tubing, connector, and mixing chip
Typical production volume	0.1 – 0.5 mL	1 – 10 mL	1 – 10 mL
Minimum input volume	Aqueous : 75ul	Aqueous: 1 mL	Aqueous: 1 mL
(Aqueous :Lipid = 3:1)	Lipid: 25ul	Lipid: 0.5 mL	Lipid: 0.5 mL
Estimated minimum mRNA cost	\$50	\$660	\$660

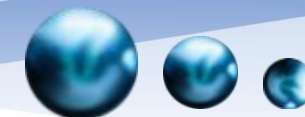


NanoGenerator® Flex-S

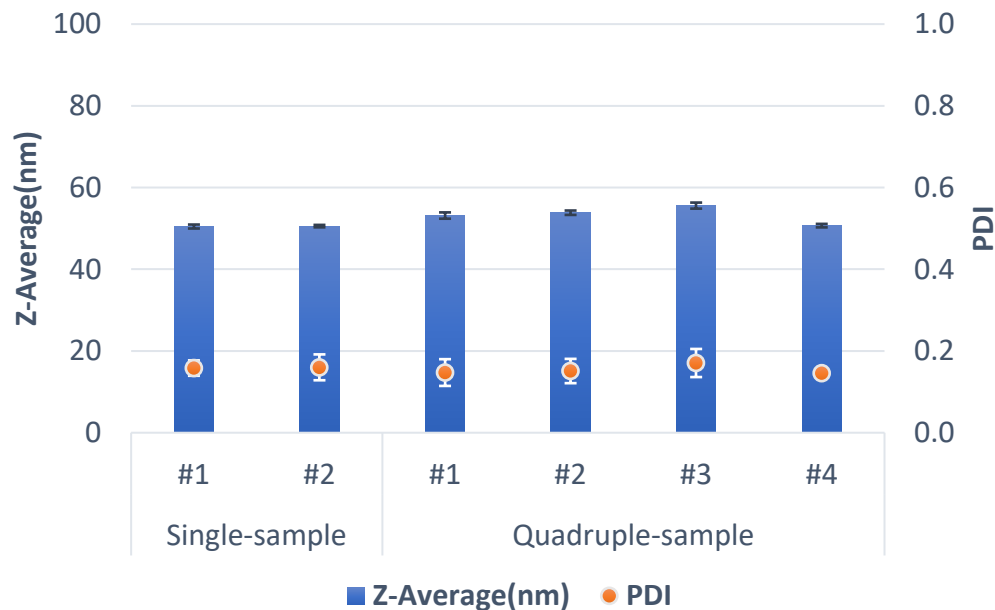


Model	Flex-S
Aqueous phase	Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Lipidflex, 15mM in ethanol

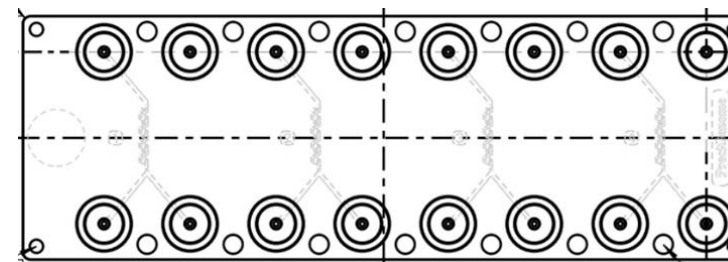
- **More total flow rate setting options.**
 - Users can choose **3ml/min** or **4ml/min** to conduct LNP synthesis.
 - Higher flow rate setting generates LNPs of smaller particle size.
- **Low synthesis volume limit (100 – 500 µL) per sample**
 - Minimum aqueous sample input volume: **75 µL**
 - Minimum Lipid formulation input volume: **25 µL**
- **Excellent batch-to-batch consistency**



Flex-S Multi-sample Synthesis Mode



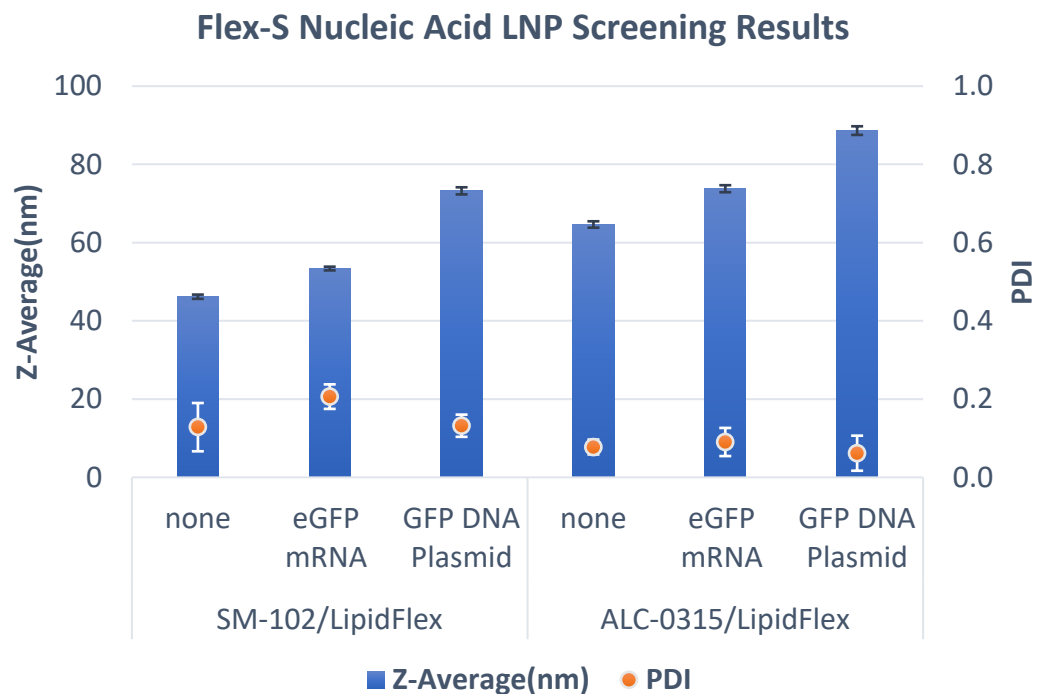
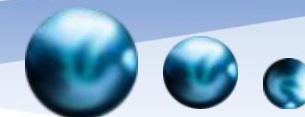
Model	Flex-S
Aqueous phase	Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Lipidflex, 15mM in ethanol



CHP-MIX-4

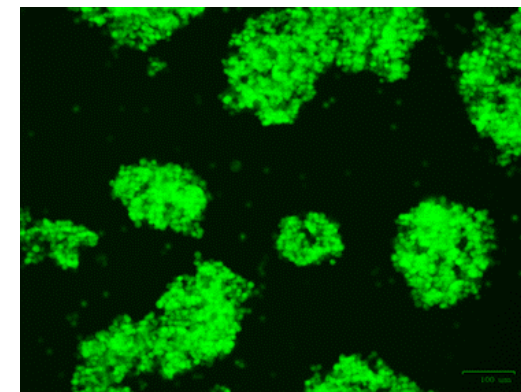
Multi-sample Synthesis by NanoGenerator® Flex-S:

- 10 seconds, 4 samples. Users can choose multi-sample synthesis mode to conduct formulation screening. The screening time is as low as 10 seconds
- Reliable screening results.** Using PreciGenome's advanced air-flow control technology, users can obtain reliable LNP results on both single- or multi-sample synthesis modes.



Model	Flex-S
Aqueous phase	100 µg/mL eGFP mRNA (CATUG) or GFP DNA (ALDEVRON) in sodium acetate buffer (100mM, pH5.2)
Solvent phase	Ionizable lipid/Lipidflex, 40/60, 12.5mM in ethanol

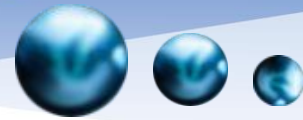
eGFP mRNA LNP Delivery to Jurkat Cells



Jurkat Cells transfected with eGFP mRNA LNP. Green fluorescence image at 48 hours post transfection.

- **Robust Formulation Screening.**
Using NanoGenerator® Flex-S, users can conduct formulation screening using minimum reagent consumption, which saves lots of cost.
- LNP size and PDI depend on the payload and formulation choice.

Flex-S workflow



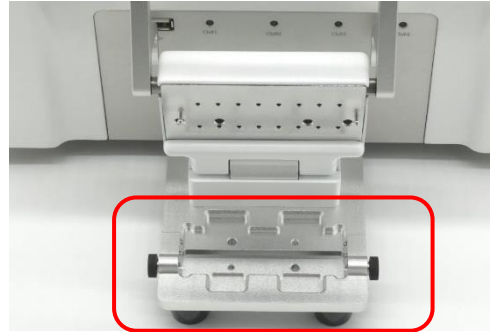
Step 1: Preparation



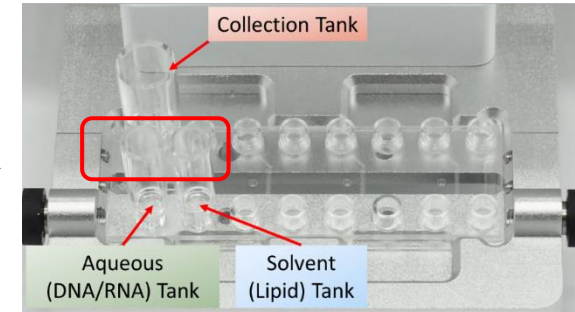
Aqueous: DNA, mRNA in buffer
Solvent: lipid mix in ethanol
(Lipid-Flex formulation)



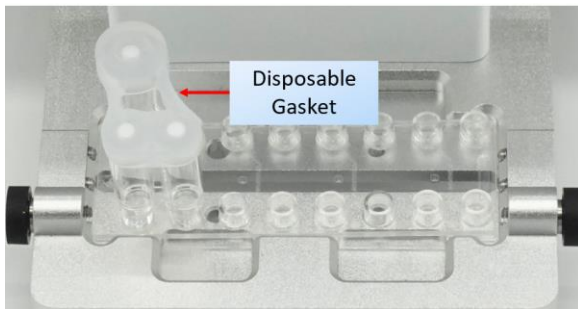
Step 2: Load chip



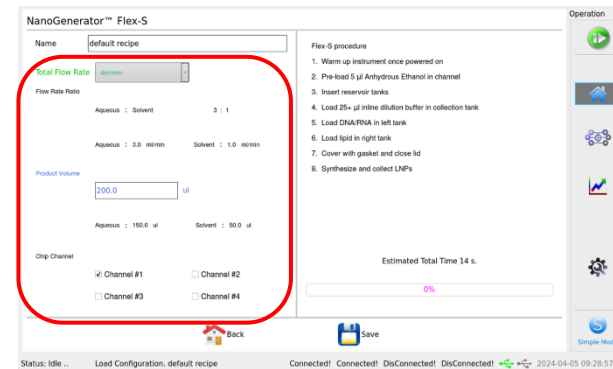
Step 3: Load samples



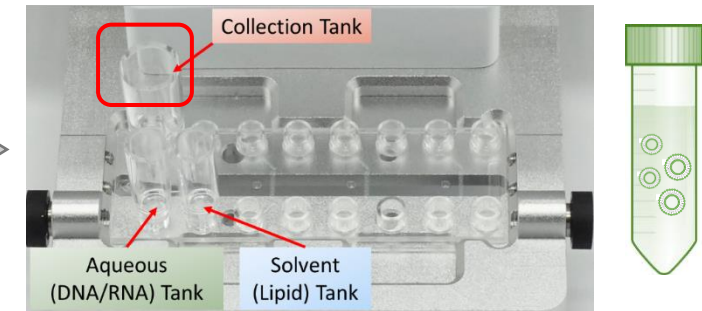
Step 4: Put on Gasket



Step 5: Set Parameters and Run



Step 6: Collect LNPs in seconds



Demo video: [PreciGenome Lipid Nanoparticle Synthesis System NanoGenerator \(3gen\) Flex-S Demo and Introduction \(youtube.com\)](#)

Demo video (multi-channel synthesis): [4 Samples per run for Lipid Nanoparticle Synthesis, NanoGenerator \(3gen\) Flex-S Demo \(youtube.com\)](#)

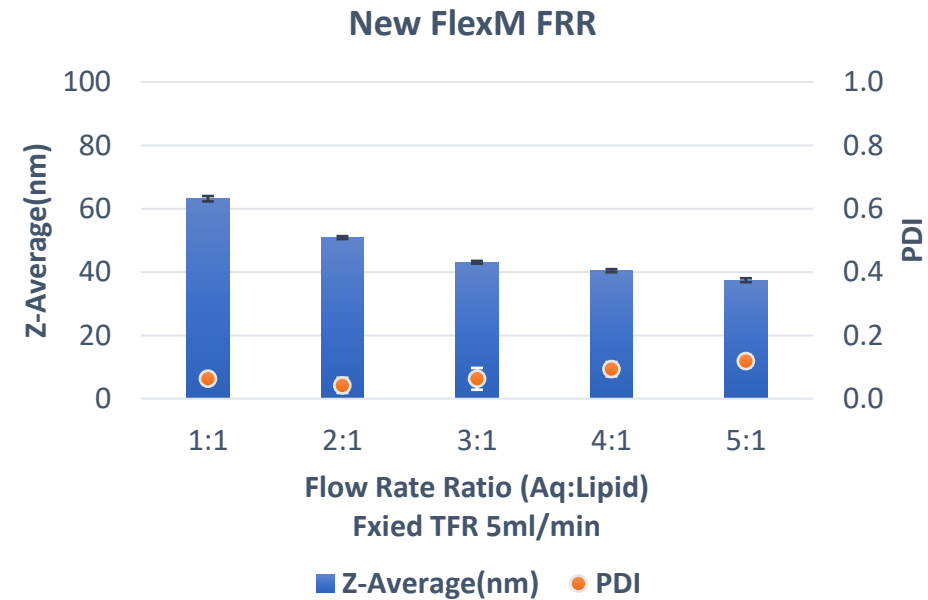
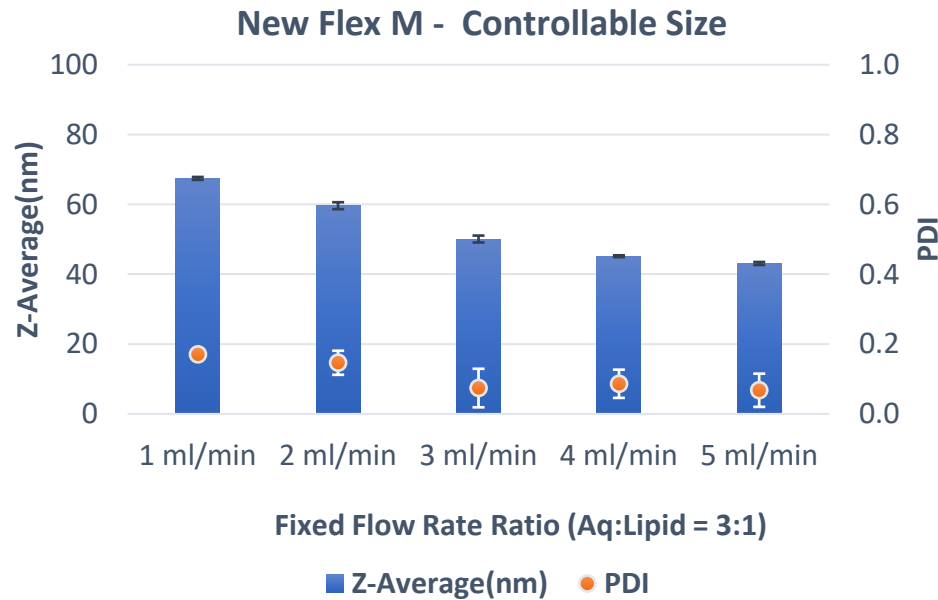


NanoGenerator[®] Flex-M



NanoGenerator[®]
Flex-M/Flex-M Premium

- 1 – 12mL synthesis volume per batch
- Tunable total flow rate (TFR, 1 – 5 ml/min) and flow rate ratio (FRR, 2:1 to 5:1) in Flex-M



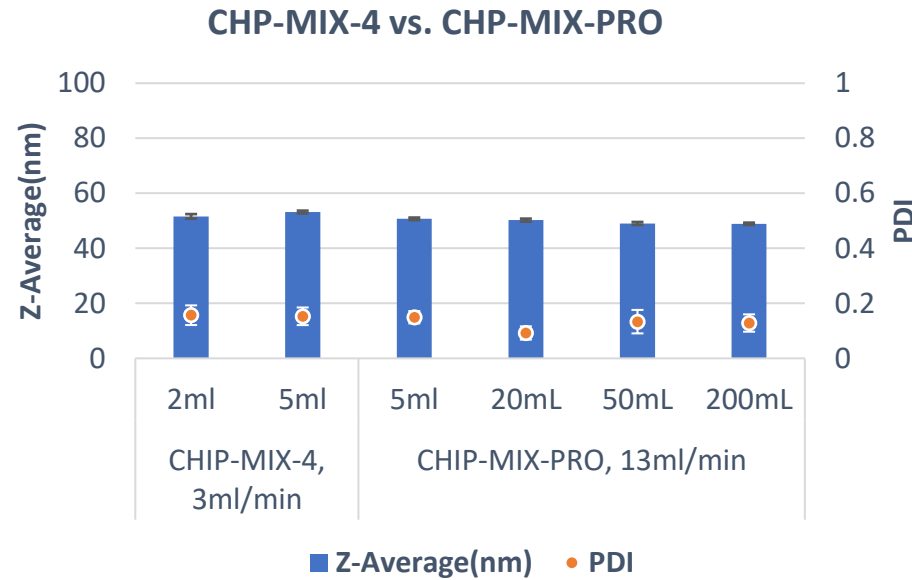
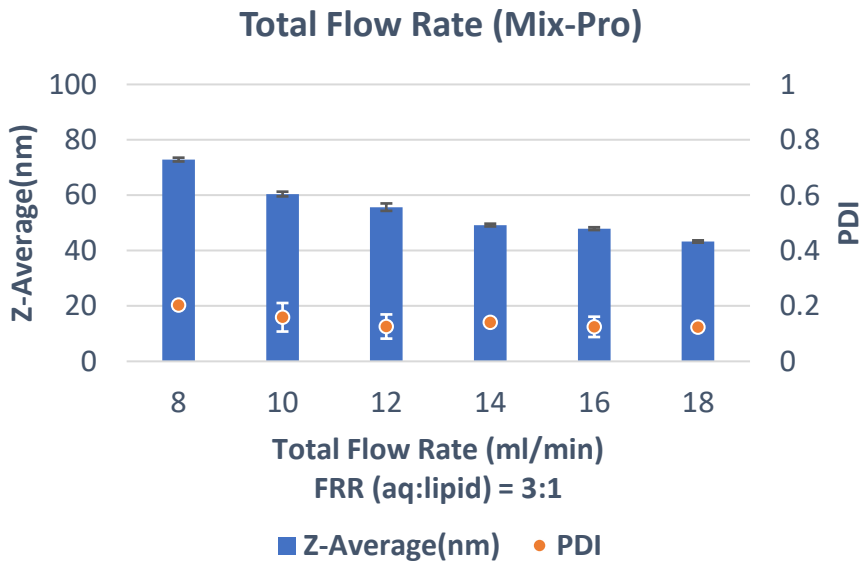
Model	Flex-M
Aqueous phase	Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Lipidflex, 15mM in ethanol

Upgrade Flex-M to Flex-M Premium

- Extend to 200mL synthesis volume per batch
- Tunable total flow rate (TFR, 1 – 5 ml/min) and flow rate ratio (FRR, 2:1 to 10:1) in Flex-M
- Compatible with CHP-MIX-PRO Chip (up to 24 ml/min*)



NanoGenerator®
Flex-M/Flex-M Premium



- CHP-MIX-PRO**
- Total flow rate: up to 24 ml/min*
 - Through put: 5-200 ml

Model	Flex-M/Flex-M Premium
Aqueous phase	Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Lipidflex, 15mM in ethanol

*Maximum of 20 ml/min with FRR of 3:1

Transferable results between Flex-S/M

- The mixing chip (CHP-MIX-4) is compatible for both Flex-S and Flex-M models.
- Customer can transfer their early screening results to later stage production seamlessly.

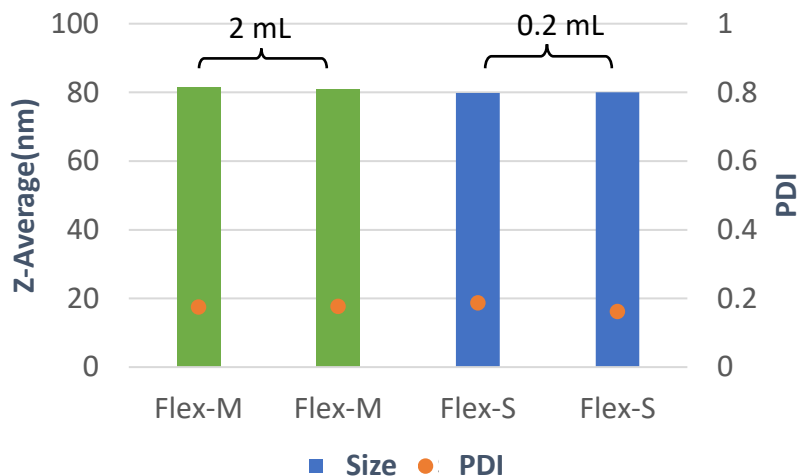


NanoGenerator® Flex-S

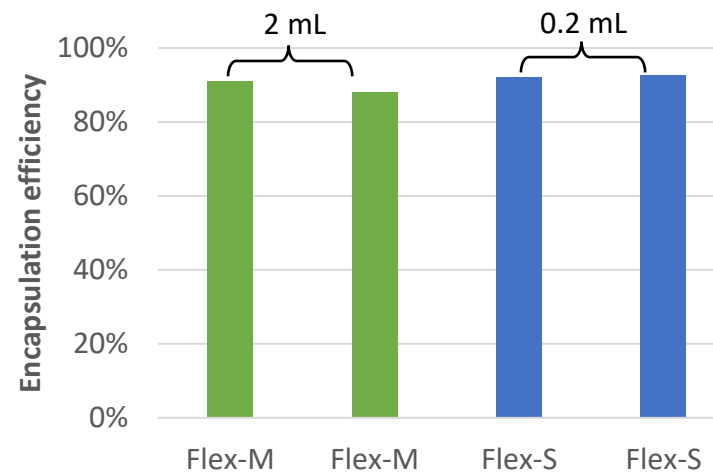


NanoGenerator® Flex-M/Flex-M Premium

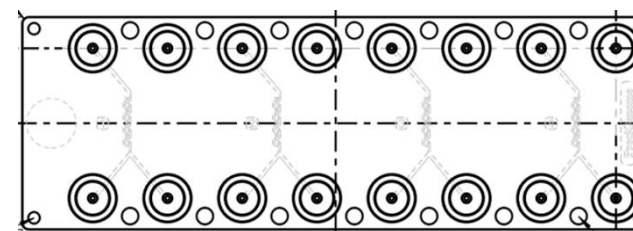
DNA LNP Synthesis



High Encapsulation Efficiency

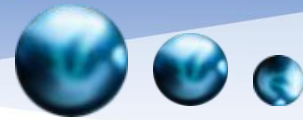


Model	Flex-S/M
Aqueous phase	GFP DNA plasmid (100ug/mL) in sodium acetate buffer(100mM, pH5.2)
Solvent phase	SM102/Lipidflex (40/60 mol%, 12.5mM total lipid concentration) in ethanol
N/P ratio	6



CHP-MIX-4

Flex-M/Flex-M Premium workflow



Step 1: Preparation

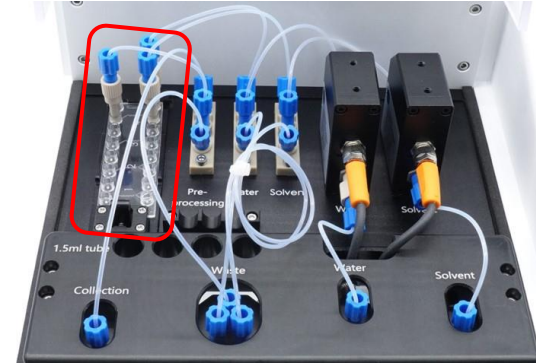


Aqueous: DNA, mRNA in buffer
Solvent: lipid mix in ethanol
(Lipid-Flex formulation)

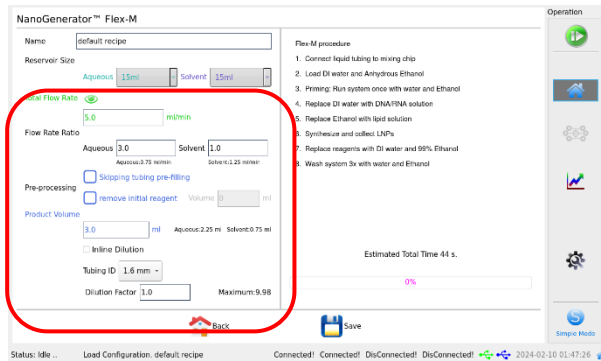
Step 2: Load sample tubes and collection tube



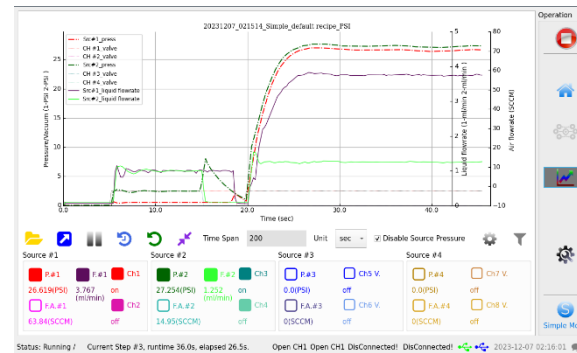
Step 3: Load chip



Step 4: Set parameters and Run



Step 5: Monitor flow rates

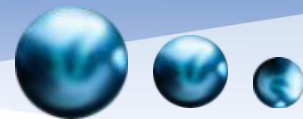


Step 6: Collect LNPs in seconds



Demo video: [NanoGenerator Flex-M\(3Gen\) Demo for Lipid Nanoparticles LNP, liposome synthesis \(youtube.com\)](https://www.youtube.com/watch?v=...)

NanoGenerator® Flex-S Plus for screening



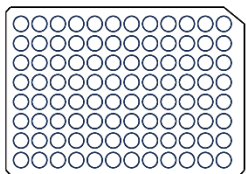
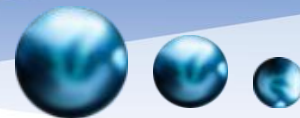
NanoGenerator®
Flex-S Plus



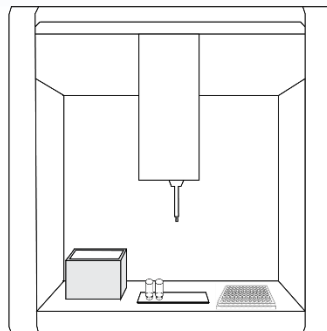
- Rapid screening of LNP formulations
- Rapid screening of mRNA/siRNA
- 48 samples per run
- 96 samples within one hour
- Disposable consumables

Model	Flex-S	Flex-S Plus
Multi-sample per run	1 – 4	(1 – 12) × 4 per run Up to 96 samples per hour
Full automation	N/A	Yes
Library preparation	N/A	Optional
Throughput	0.1 – 0.5 ml per sample	0.1 – 0.5 ml per sample
Total flow rate	3 ml/min, 4 ml/min	3 ml/min
Flow rate ratio	3:1	3:1
Custom design flow rate	Yes	Yes
Size range	40 – 200 nm	40 – 200 nm
PDI	0.05 – 0.2	0.05 – 0.2
Encapsulation efficiency	Up to 99%	Up to 99%
Payload	DNA, mRNA, siRNA, Protein, small molecules, etc.	DNA, mRNA, siRNA, Protein, small molecules, etc.
Dimension	320 mm × 400 mm × 210 mm	630 mm × 570 mm × 660 mm
Weight	8.1 kg	50 kg

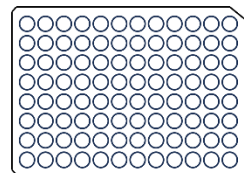
NanoGenerator® Flex-S Plus for screening



Input



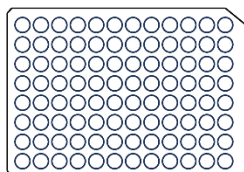
Output



Screening reagents including:

- Payload
- Helper lipid
- Ionizable/cationic lipid
- PEGylate lipid
- Sterol lipid
- Lipid combination
- Etc.

Library preparation



Payload library

- Payloads
- Payload Concentrations

Carrier library

- Lipid combination
- Lipid ratio
- Lipid Concentration

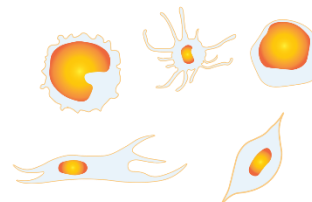
LNP synthesis



Mixing condition

- Total flow rate
- Flow rate ratio
- N:P ratio

Cell studies with up to 32 formulations per run, 96 samples per hour

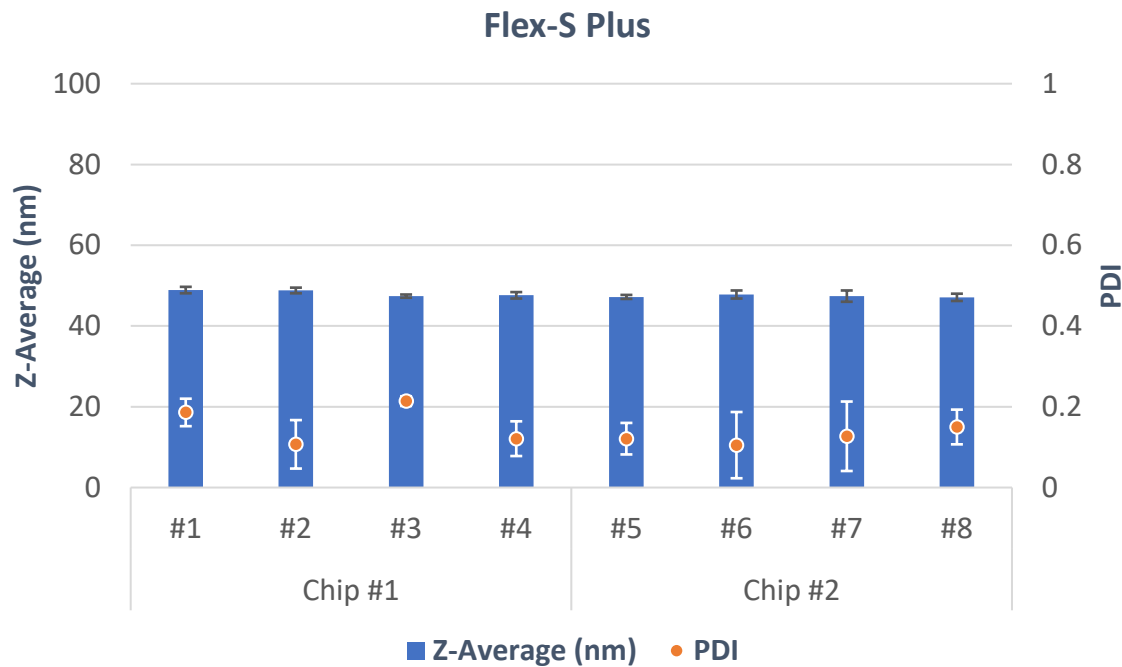
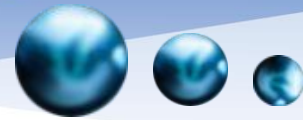


Sample Workflow:

1. Load samples in 96 well plates;
2. Seal the 96 well plate (optional);
3. Put consumables on the deck: Chips, 96 well plates, pipette tips, and Gaskets;
4. Set parameters in the software and run the program;
5. Collect samples in 96 well plate;
6. Discard/Change consumable.

Demo video: [Demo of NanoGenerator® Flex-S Plus Platform, Automated High-throughput LNP Preparation & formulation](#)

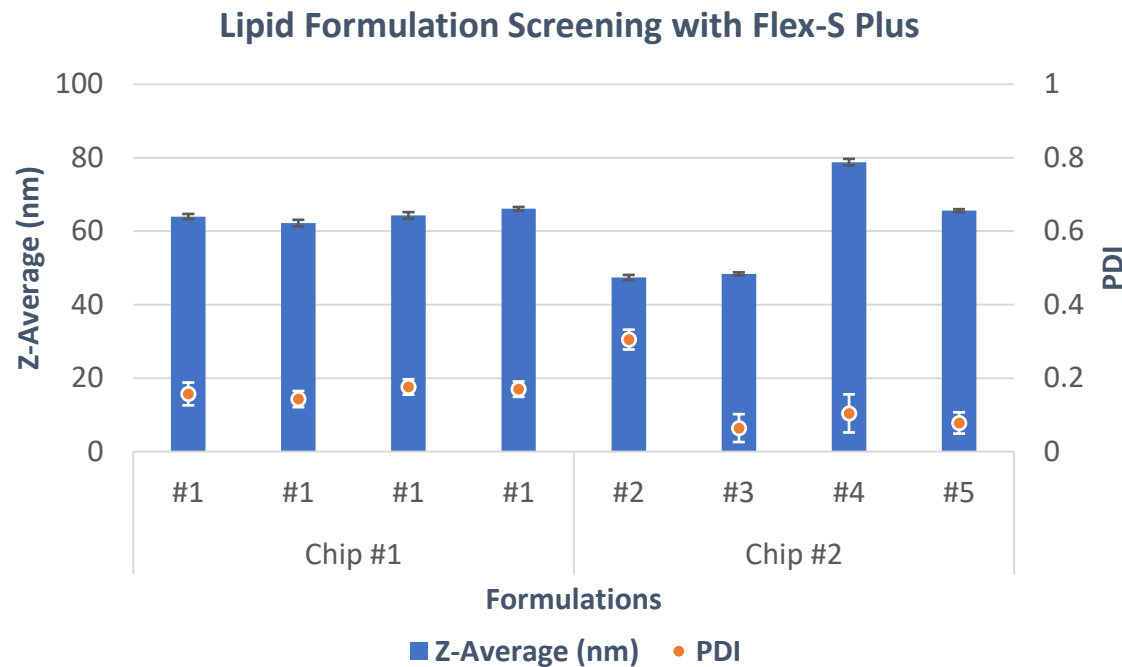
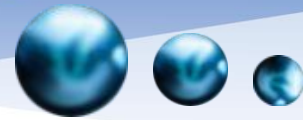
NanoGenerator® Flex-S Plus for screening



- Robust multi-sample synthesis
- Reliable performance
- Consistent results

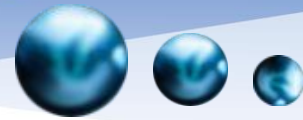
Model	Flex-S Plus
Aqueous phase	Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Lipidflex, 15mM in ethanol
Parameters	3ml/min, FRR 3:1, 200µL

NanoGenerator® Flex-S Plus for screening



- Lipid formulation screening
- 96 samples < 1hour
- 96-well Plate format

Model	Flex-S Plus
Aqueous phase	RNA in Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Different lipid formulation



Size (nm)

54.9	45.4	45.5	55.5
54.4	47.6	45	46.2
54.7	46.5	47.4	62.3
54.4	48.2	51.9	57.3
42.6	47.8	44.8	51.2
41.1	50	46.9	48.2
62.8	48.5	46.7	74
56.6	50.7	52.1	59.2

40

80

PDI

0.216	0.13	0.126	0.473
0.175	0.107	0.092	0.08
0.185	0.09	0.104	0.113
0.16	0.1	0.137	0.107
0.306	0.121	0.101	0.403
0.063	0.129	0.128	0.124
0.118	0.066	0.148	0.109
0.041	0.099	0.163	0.113

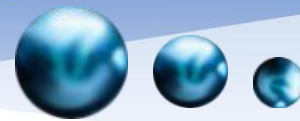
0.02

0.50

- 32 sample screening (formulation & N:P ratio screening)
- 96 samples < 1hour
- 96-well Plate format

Model	Flex-S Plus
Aqueous phase	RNA in Sodium acetate buffer, 100mM, pH5.2
Solvent phase	Different lipid formulation

Case Study: mRNA LNP for T cell Transfection



eGFP mRNA Lipid Nanoparticles by Flex-S
Z-Average Diameter: 67.3 nm
PDI: 0.106

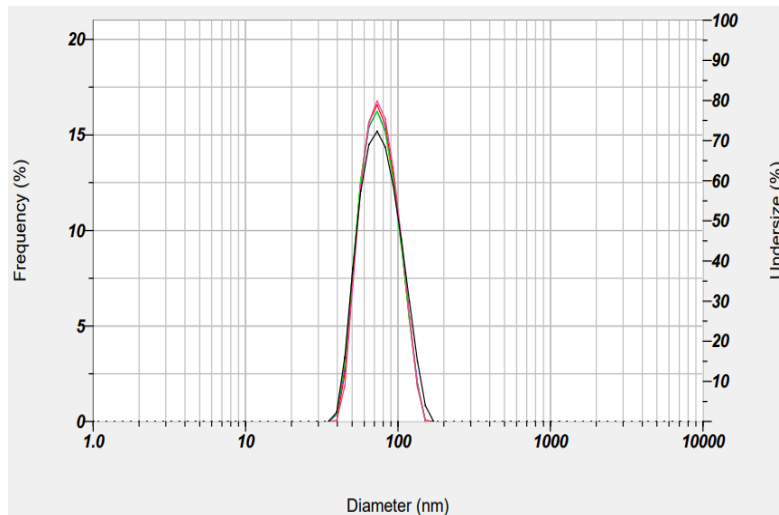


Figure 1. mRNA(eGFP)-LNP Synthesized by NanoGenerator® Flex-S. Average diameter is 67.3 nm. PDI is 0.106. Encapsulation efficiency is 94.5% (Ribo Green RNA Quantification Kit).

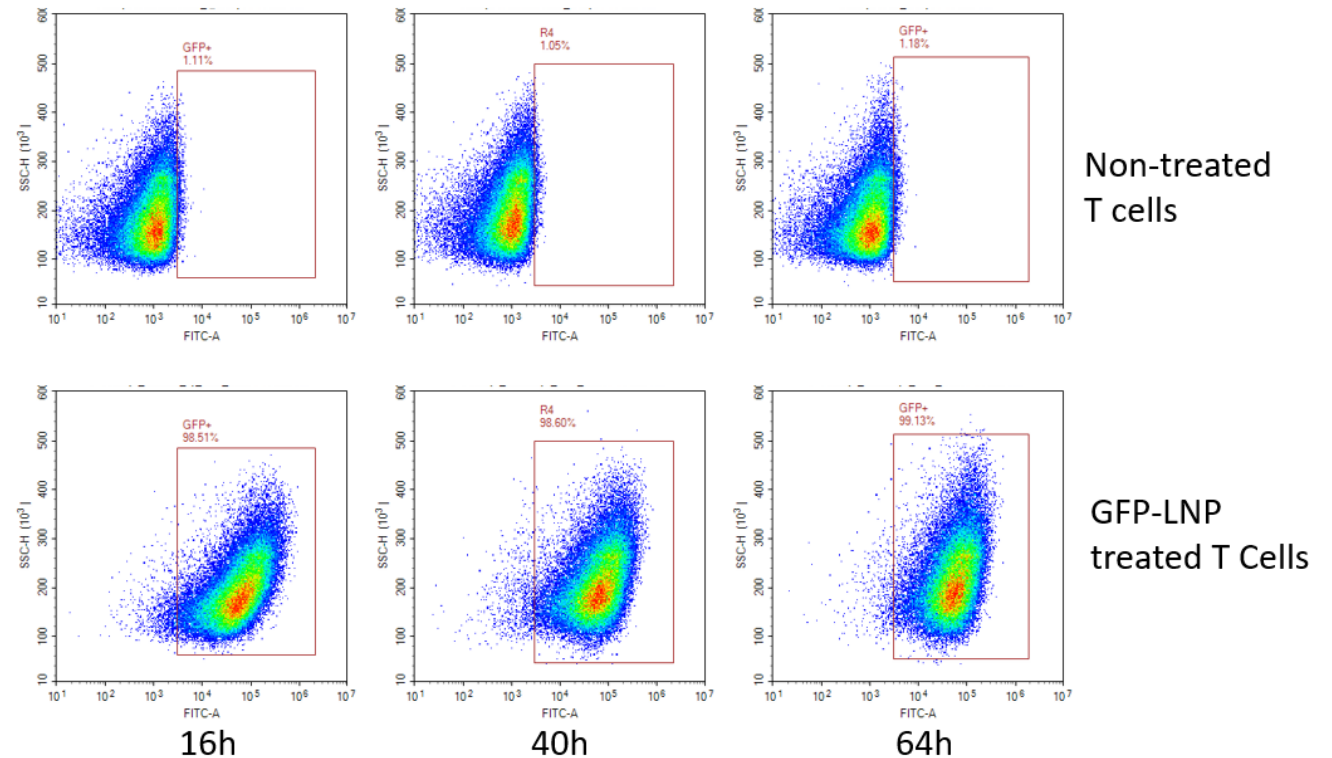
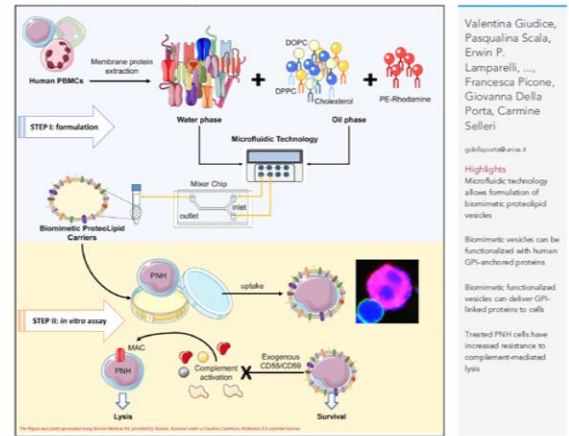


Figure 2. GFP(+) positive population of control (non-treat) and EGFP mRNA LNP treated primary T cells at 16, 40 and 64 hours. Cells were stained (1:50) using Biolegend 7-AAD Viability Staining for 10 minutes. Gating: First select for individual cells (excluding doublets). Then select for the healthy cell population. Then select for viable cells by excluding cells which are positive for 7-AAD. Gate for FitC-A channel (GFP)

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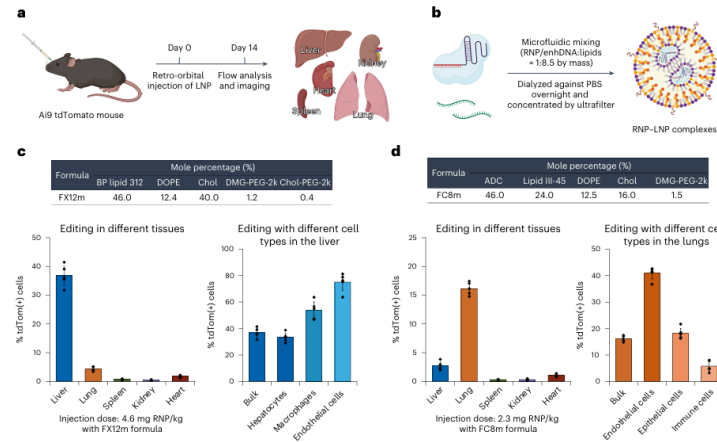


nature biotechnology

Article
<https://doi.org/10.1038/s41587-024-02437-3>
Lung and liver editing by lipid nanoparticle delivery of a stable CRISPR–Cas9 ribonucleoprotein

Received: 23 October 2023
Accepted: 18 September 2024
Published online: 16 October 2024

Kai Chen^{1,2,10}, Hesong Han^{2,3,10}, Sheng Zhao^{2,3}, Bryant Xu^{1,2}, Boyan Yin^{2,3}, Atip Lawanprasert^{2,3}, Marena Trinidad^{1,2,4}, Benjamin W. Burgstone^{2,3}, Niren Murthy^{2,3} & Jennifer A. Doudna^{1,2,4,5,6,7,8,9}



vaccines

Article
Microfluidic Synthesis of Scalable Layer-by-Layer Multiple Antigen Nano-Delivery Platform for SARS-CoV-2 Vaccines

Yang Xu^{1,*}, Kazuya Masuda², Christine Groso², Rick Hassan¹, Ziyu Zhou¹, Kelsey Broderick¹, Moriya Tsuji² and Christopher Tison¹

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cancers

Article
mRNA-Lipid Nanoparticle (LNP) Delivery of Humanized EpCAM-CD3 Bispecific Antibody Significantly Blocks Colorectal Cancer Tumor Growth

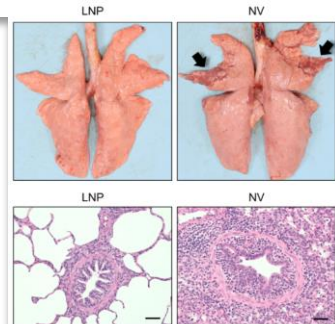
Vita Golubovskaya^{1,*}, John Sienkiewicz¹, Jinying Sun¹, Yanwei Huang¹, Liang Hu¹, Hua Zhou¹, Hizkia Harto¹, Shirley Xu¹, Robert Berahovich¹, Walter Bodmer² and Lijun Wu^{1,3,*}

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³ Forevertex Biotechnology, Janshan Road, Changsha Hi-Tech Industrial Development Zone, Changsha 410205, China
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AMERICAN SOCIETY FOR MICROBIOLOGY mSphere RESEARCH ARTICLE August 2024, Volume 9, Issue 8, e02633-24 <https://doi.org/10.1128/mSphere.02633-24>

Lipid nanoparticle-encapsulated DNA vaccine confers protection against swine and human-origin H1N1 influenza viruses

The N. Nguyen^{1,2}, Danh C. Lai^{1,2}, Sarah Sillman², Erika Petro-Turnquist^{1,3}, Eric A. Weaver^{1,3}, Hiep L. X. Vu^{1,4}



BRIEF DEFINITIVE REPORT
Regenerating murine CD8⁺ lung tissue resident memory T cells after targeted radiation exposure

Mariah Hassert¹, Lecia L. Pewe², Rui He², Mohammad Heidarian^{1,3}, Porroj P. Phruttivanichakun², Stephanie van de Wall⁴, Madison R. Mix^{1,4,5}, Alkaseer K. Salem^{2,4}, Vladimir P. Radovnic^{1,3,4,6}, and John T. Hart^{1,3,4,6}

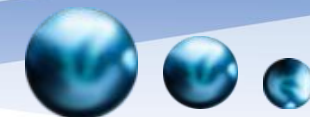
Contents lists available at ScienceDirect
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journal homepage: www.elsevier.com/locate/ijpharm

Lipid nano-vesicles for thyroid hormone encapsulation: A comparison between different fabrication technologies, drug loading, and an *in vitro* delivery to human tendon stem/progenitor cells in 2D and 3D culture

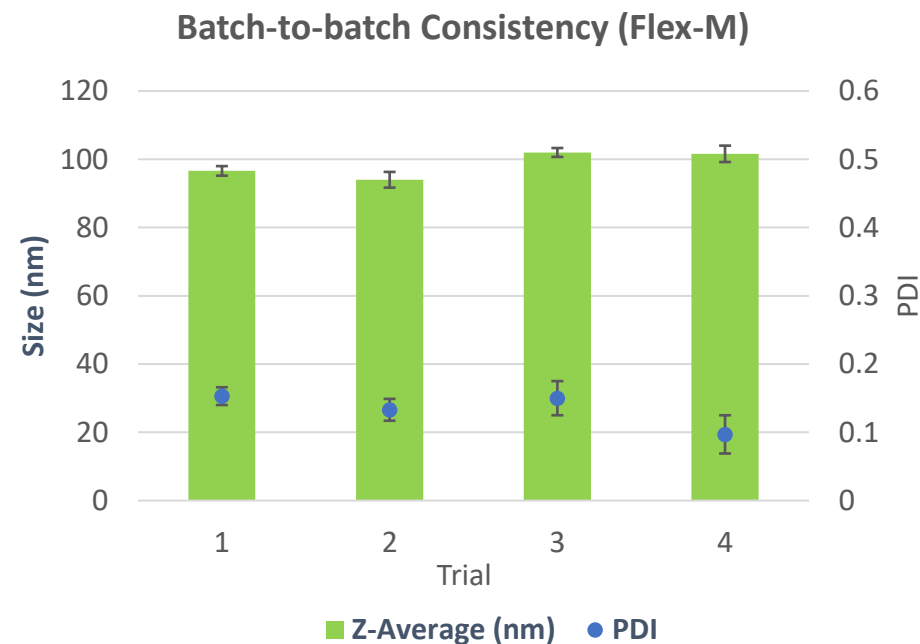
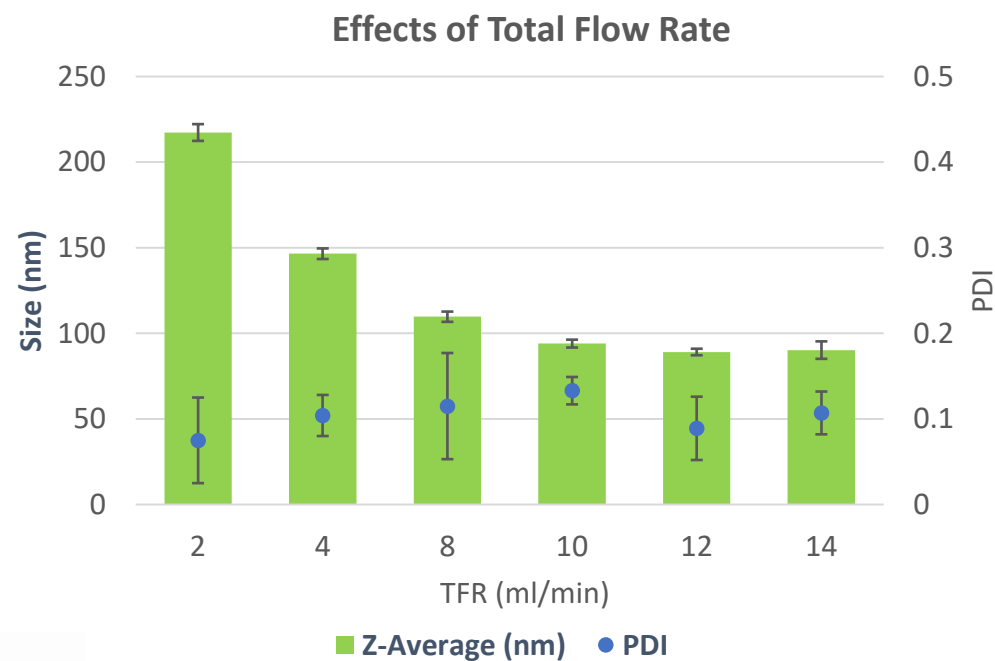
E.P. Lamparelli^a, M.C. Ciardulli^a, P. Scala^a, M. Scognamiglio^b, B. Charlier^a, P. Di Pietro^a, V. Izzo^a, C. Vecchione^{a,c}, N. Maffulli^a, G. Della Porta^{a,b,d}

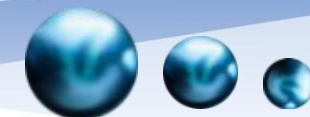
^a Department of Medicine, Surgery and Dentistry, University of Salerno, Via S. Allende, 84081 Baronissi, (SA), Italy
^b Department of Industrial Engineering, Università di Salerno, via Giovanni Paolo I, 84084 Fisciano, (SA), Italy
^c IRCCS Neuromed, Department of Vascular Physiopathology, 86077 Pozzilli, IS, Italy
^d Interdepartment Centre BIONAM, Università di Salerno, via Giovanni Paolo I, 84084 Fisciano, (SA), Italy

Case Study: PLGA Nanoparticle Synthesis



- PreciGenome's NanoGenerator[®] is used for the synthesis of a variety of nanoparticles, including PLGA (poly(lactic-co-glycolic acid)) nanoparticles.
- PLGA NP size tuning is controlled by the formulation parameters, the total flow rate and the flow rate ratio.





LipidFlex™

Flexible Lipid Nanoparticle Formulation

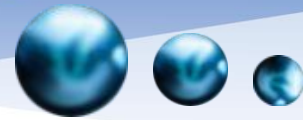
LipidFlex™ is a 3-component lipid nanoparticle formulation that compatible with various cationic/ionizable lipids for nucleic acid encapsulation and cell transfection. LipidFlex™ Pack kit includes ionizable lipid (SM102).

- Flexible cationic/ionizable lipid ratio
- Flexible with various N/P ratio
- High nucleic acid encapsulation efficiency
- High mammalian cell transfection rate

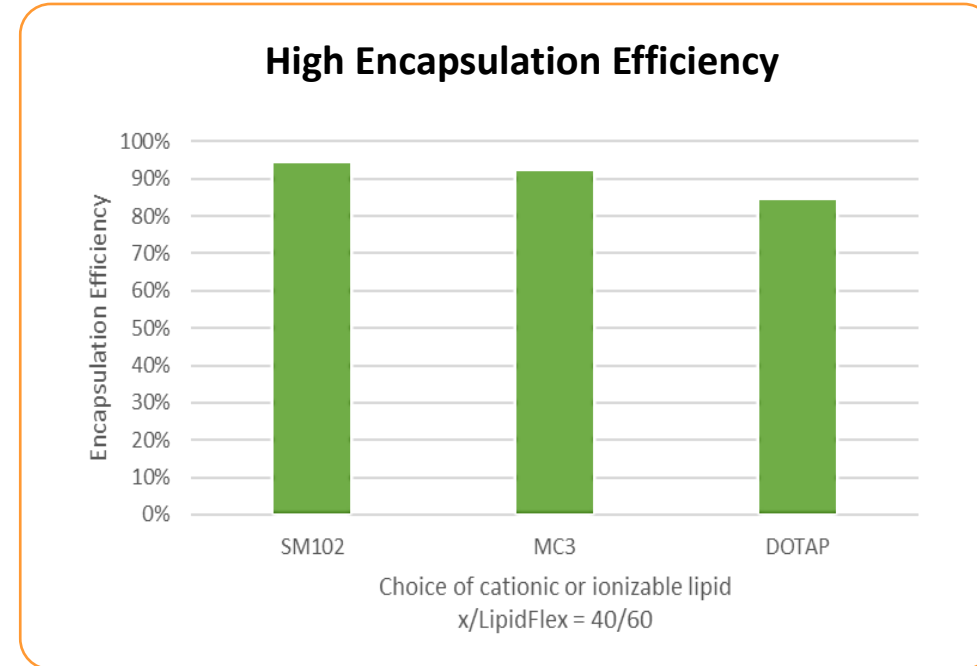
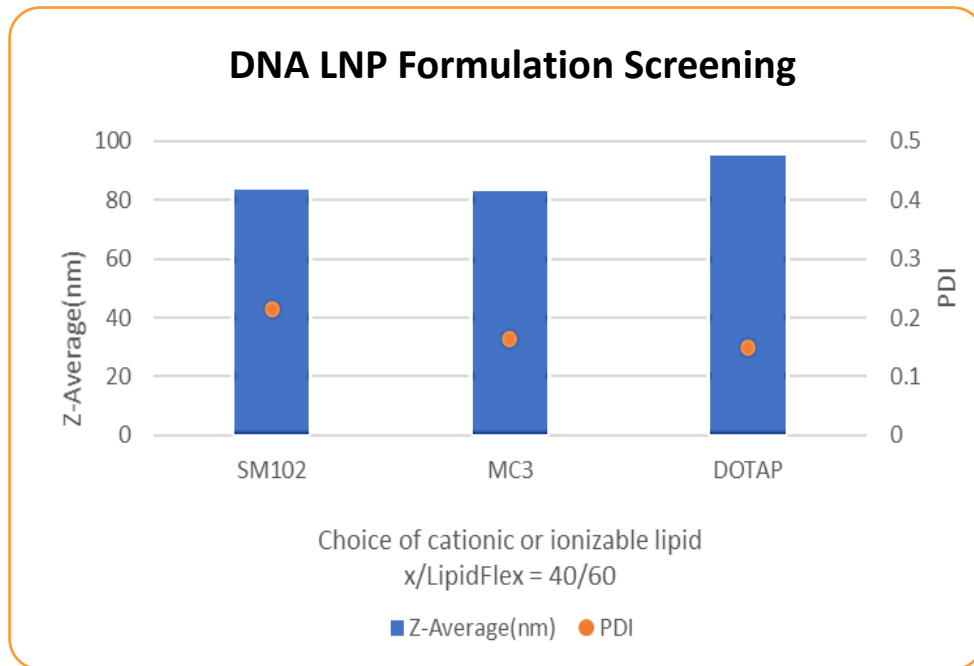


Model	LipidFlex™
Catalog #	PG-SYN-LF1ML
Components	Structural Lipid/ Cholesterol/Stabilizer
Product size	1000 µL
LipidFlex Conc.	30 mM
Ionizable lipid	NA

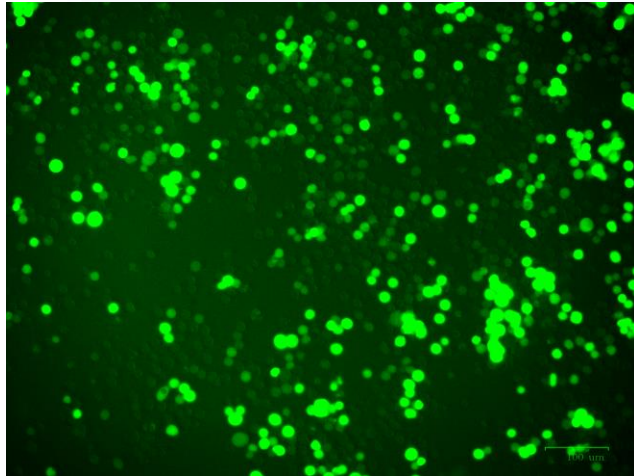
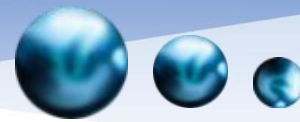
LipidFlex™ – Flexible Starting Kit



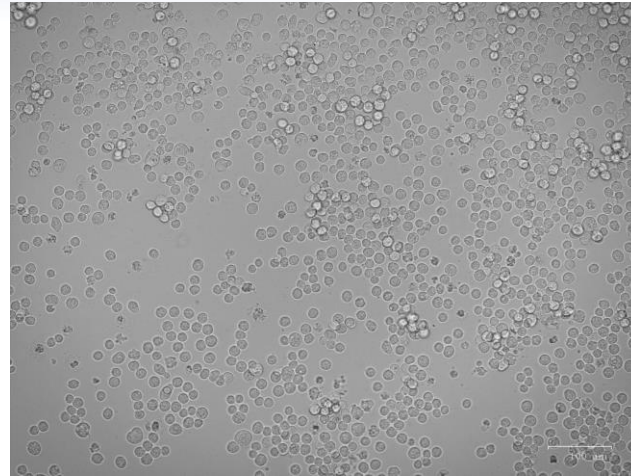
- PreciGenome provides a general LipidFlex™ formulation for quick formulation screening.
- By adding cationic/ionizable lipid into LipidFlex™, customer can prepare nucleic acid LNP with high encapsulation efficiency.



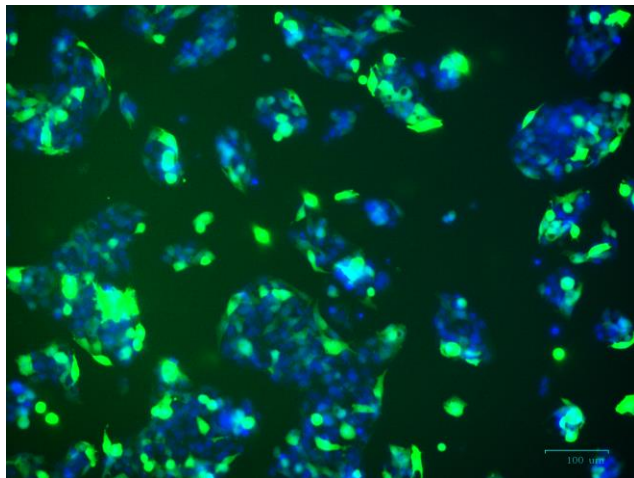
LipidFlex™ LNP – Cell Transfection to Different Cell Lines



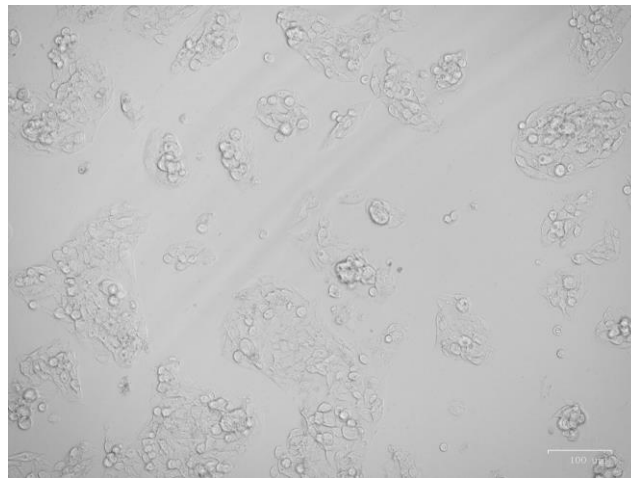
K562 – Green Fluorescence Field



K562 –Bright Field



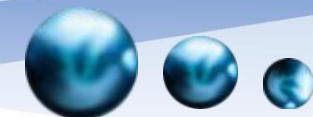
HepG2 – Green and Blue field overlay



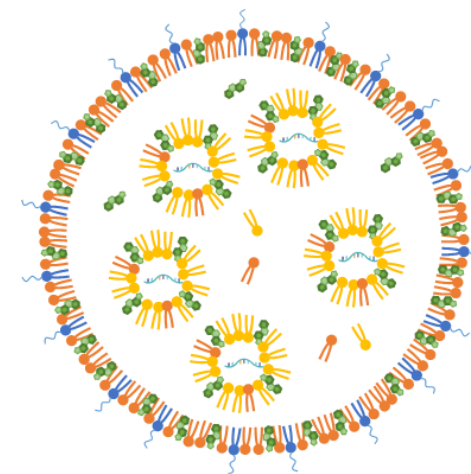
HepG2 –Bright Field

- DNA lipid nanoparticle (gWiz GFP plasmid, Aldervon) was generated using SM102/PG-LipidFlex (40/60 mol%) formulation by PreciGenome NanoGenerator.
- HepG2 and K562 Cell lines are successfully transfected by GFP DNA LNP. 48 hours post transfection, HepG2 Cell nucleuses are stained with Hoechst 33342 dye (blue color) before imaging.

LipidFlex™ T Cell Kit

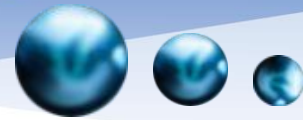


LipidFlex™ T cell kit is a highly efficient lipid formulation to synthesize mRNA lipid nanoparticles (LNP) for primary human T cell gene delivery. Using NanoGenerator® Flex-S system and CHP-MIX-4 cartridge, customers can prepare potent mRNA LNP in a convenient and efficient way.

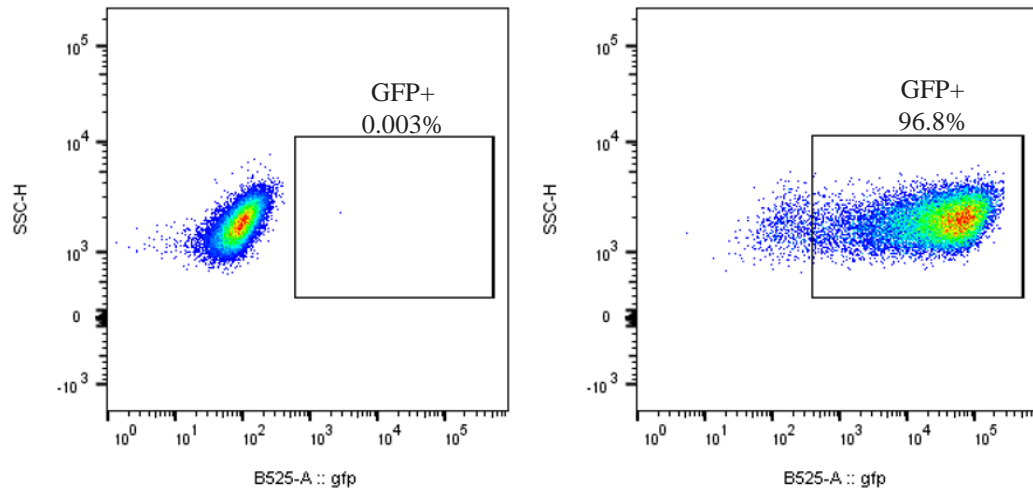


- Over 90% mRNA encapsulation efficiency
- High transfection efficiency
- High protein expression level
- High cell viability
- Time efficient synthesis process

Component	Size	Storage
LipidFlex T cell Lipid mix	125 µL	-80 °C
Formulation Buffer 1 (10x)	60 µL	4 - 8 °C
Formulation Buffer 2	600 µL	4 - 8 °C

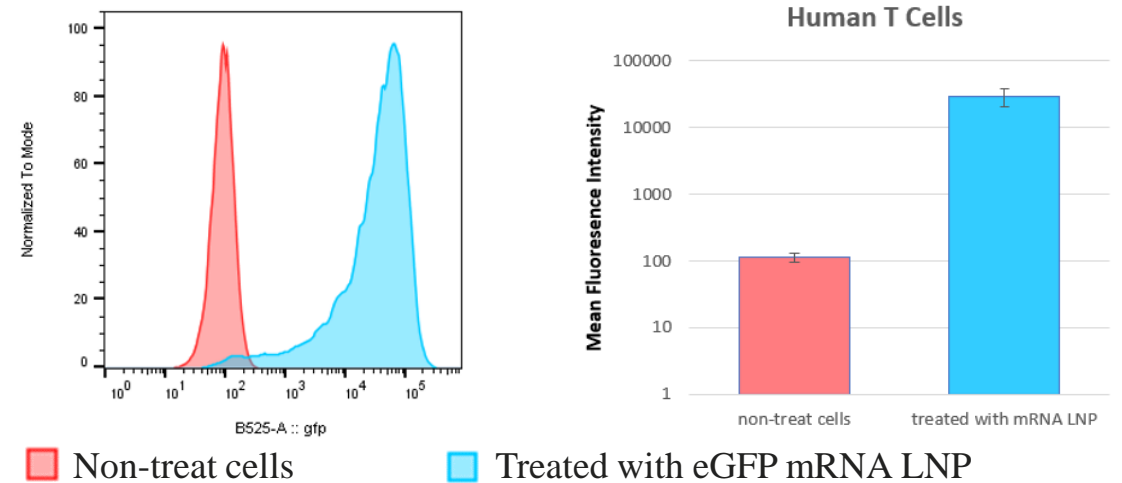


High Human T Cell Transfection Efficiency

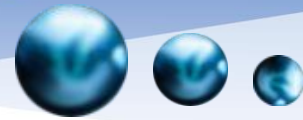


* 24 hours post-treatment Human T cells (eGFP mRNA from Trilink)

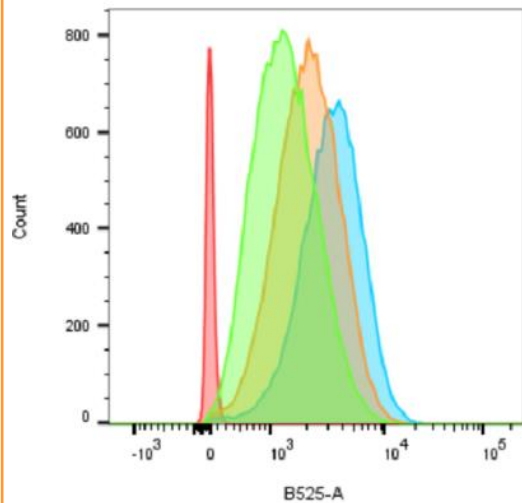
High Protein Expression Level



* 24 hours post-treatment Human T cells (eGFP mRNA from Trilink)

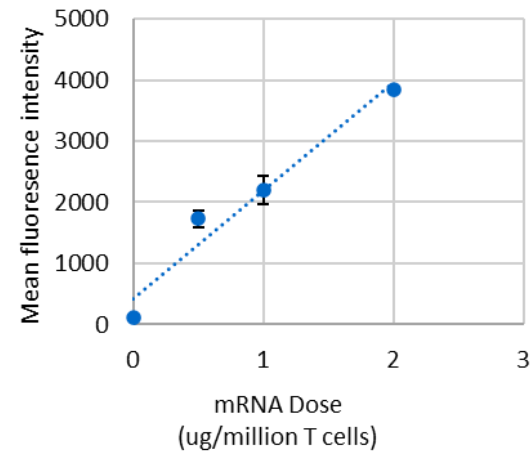


mRNA LNP Dose Dependency

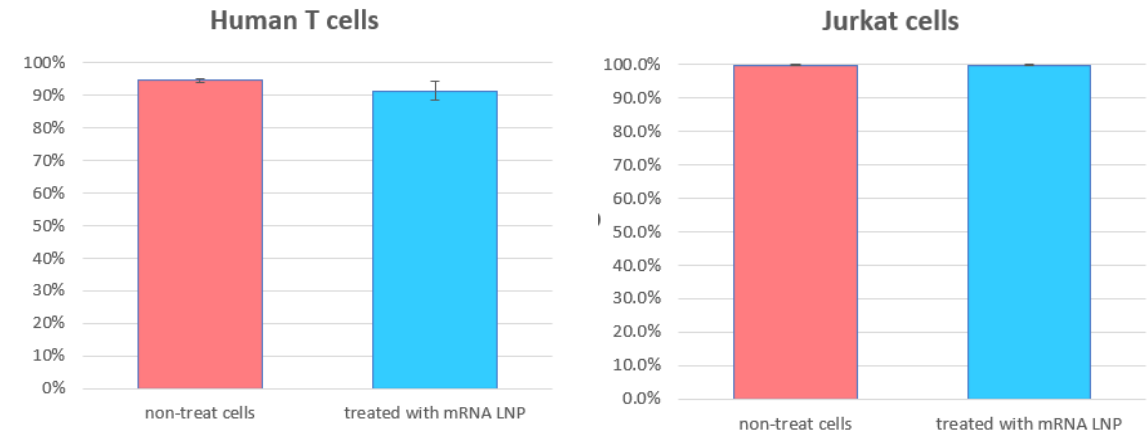


* 24 hours post-treatment Jurkat cells (eGFP mRNA from ProMab)

Dose Dependent of mRNA LNP



High Cell Viability



* 24 hours post-treatment Human T cells and Jurkat cells

Why PreciGenome?



NanoGenerator® Flex-S

High Performance & Efficiency



- Tunable size (40-200nm)
- Low PDI (0.05-0.2)
- High encapsulation efficiency

Open Platform



- Upgradable system
- Transferable microfluidic chips

Scalable Throughput



- Low volume for screening (Flex-S)
- Medium volume production (Flex-M/Flex-M Premium)
- High volume production (Pro, Max-GMP)



NanoGenerator® Flex-S Plus

Simple Operation



- Simple setup
- Compact size
- Intuitive UI w/ touchscreen

Cost Effective



- Affordable configuration
- Lower cost per run

Custom Support



- Demo, Training and Support
- Extended Warranty
- Hot swap option
- Local US company

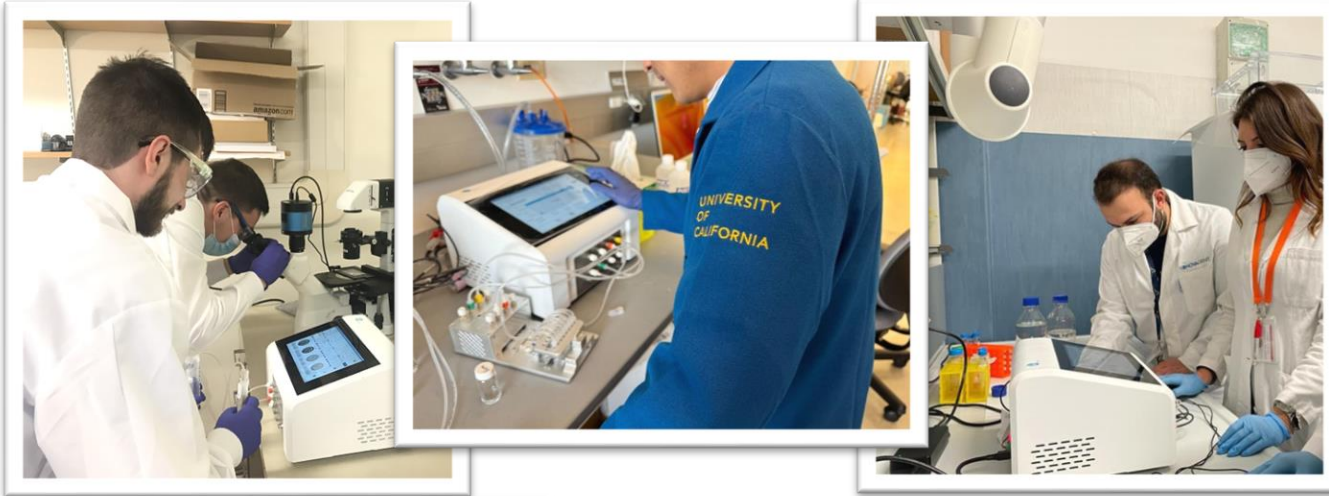
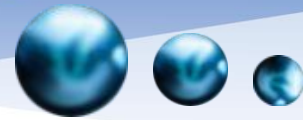


NanoGenerator® Flex-M/Flex-M Premium



NanoGenerator® MAX

Some of Our Customers



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Tel: 1-408-708-4602

Address: 2176 Ringwood Ave.

San Jose, CA, United States 95131

