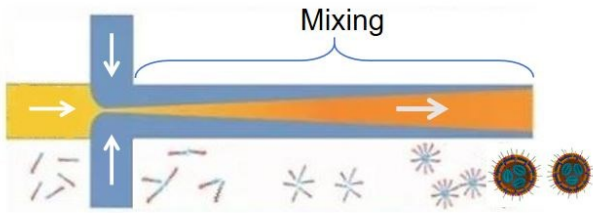


NanoGenerator™ Nanoparticle Synthesis System



Nanoparticle synthesis by microfluidic technology presents advantages over the conventional batch synthesis processes due to its superior control of size and shape.

PreciGenome's NanoGenerator™ applies microfluidic approaches to synthesize nanoparticles in a continuous mode. The systems have been widely used in various applications, such as lipid nanoparticles (LNP), liposomes, PLGA, etc. in the drug delivery field.

Microfluidic Mixing System

- Controllable particle size
- Low PDI
- High encapsulation efficiency

System Benefits

High Performance & Efficiency



- Tunable size (40-500nm)
- Low PDI
- High encapsulation efficiency

Open Platform



- Reagents
- Microfluidic chips

Scalable Throughput



- Small volume test
- High volume production
- GMP version available soon.

Payloads

- DNA/mRNA/siRNA
- Small molecule drugs
- Proteins and peptides
- Other payloads

Simple Operation



- Easy setup
- Intuitive UI w. touchscreen

Cost effective



- Affordable configurations
- Low cost solutions

Custom design & OEM



- [Research collaboration](#)
- [Custom design](#)
- [OEM & Contract manufacturing](#)

Catalog #	Name
PG-SYN-8F	NanoGenerator Flex
PG-SYN-P	NanoGenerator Pro
PG-SYN-PP	NanoGenerator Pro +



NanoGenerator Flex

Scientific research, screen and discovery for quick low-volume preparation

0.5 to 20ml per run



NanoGenerator Pro & Pro+

Preclinical Studies and Development

2 to 50ml per run by Pro
2 to 1000ml per run by Pro +



NanoGenerator Max (available soon)

Clinical development
GMP certified manufacturing

>20 L per run



NanoGenerator OEM

Custom design and OEM solutions
GMP certified manufacturing

>20 L per run

System Applications

Nucleic acid LNP

- mRNA vaccines
- Rare genetic diseases
- Gene & cell therapy
- mRNA protein replacement

Liposomes

- Cancer therapy
- Adjuvant in vaccine
- Antimicrobial therapy
- Cosmetics

Polymer Nanoparticles

- Cancer chemotherapy
- Immunology and vaccines
- Insulin delivery for diabetes

Emulsions and other NP

- Drug formulation
- Controlled biodistribution
- Theranostics
- Imaging