

What is **TAMARA**?

The TAMARA Nanoparticle Formulation System is a plug-and-play microfluidic platform **covering all R&D stages**, ensuring **controlled nanoparticle synthesis** with optimal sample usage & reusable chips.

It is the perfect companion for any nanoparticle specialist - **from beginners to experts** - looking for a comprehensive, user friendly, and efficient nanoparticle system for the development of **novel nanomedicines**.



Benefits:

- ✓ One platform **for all nanoparticles**
- ✓ Best size, PDI, EE% & repeatability
- ✓ One system **from screening to in-vivo**
- ✓ **Maximized** reagent use
- ✓ **Speed up** your lab routine
- ✓ **Minimize cost** per run

Key features:



From 200 μ L to 30 mL of nanoparticle*
*Optimal efficiency range: 0.5 to 5 mL



No dead volume
For maximized reagent use



Encapsulation efficiency **EE% > 98%** & **PDI < 0.2** for RNA-LNP



Reusable chips and reservoirs



Optimal size control (50 to 200 nm) and **repeatability ($\pm 3\%$)**



Less than 2 minutes per run

Easy pipetting

They trust us:



Microfluidic Technology:

TAMARA uses the **state-of-the-art microfluidic technology** for the synthesis of nanoparticles by nanoprecipitation.

Using our technology, reach **PDI < 0.2**, **encapsulation efficiency > 98%**, **size control and repeatability of $\pm 3\%$** . Our proprietary microfluidic chips are **embedding 2 designs** head to toe for more flexibility one herringbone mixer and one baffle mixer.



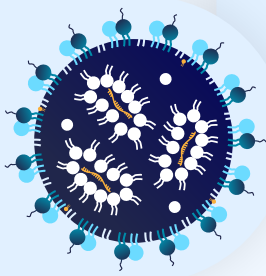
Two designs available
on the same reusable chip

Flexible nanoparticles:

With TAMARA, synthesize **all polymer and lipid based nanoparticles**, including:

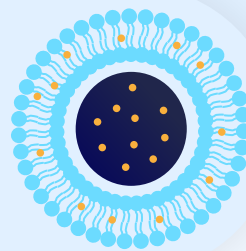
LNP

Specially engineered for delivery any types of RNA (mRNA, siRNA, miRNA, ASO...)



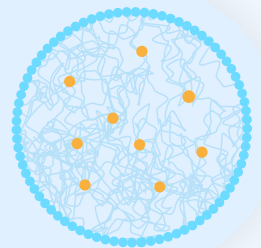
Liposome

Lipid bilayers designed for delivering a wide range of agents in pharmaceutical and cosmetic applications



PLGA

Versatile and highly biocompatible carrier for small molecules



& **any other polymeric or lipid-based nanoparticles**, (nanoemulsion, peptidic nanoparticles,...)

Intuitive operation:

1.

Set your formulation parameters



2.

Pipette your liquids



3.

Close, run & collect

