



Formulation Made Easier

NanoFabTx™ Formulation Kits

Formulate faster with our ready-to-use NanoFabTx™ formulation kits. NanoFabTx™ kits provide more reproducible synthesis from nano- to micro-sized particles, using both standard nanoprecipitation and microfluidic techniques. NanoFabTx™ kits facilitate early-stage drug nanoformulation screening with optimized protocols and a curated selection of polymer-based materials for drug encapsulation.

NanoFabTx™ reagent kits can be used with easy-to-use nanoprecipitation methods or can also leverage the power of microfluidics when combined with NanoFabTx™ microfluidic device kits. Together, these kits enable simplified and rapid synthesis of monodispersed particles with minimal batch-to-batch variability. Device kits include pre-assembled microfluidic glass chips, tubing, and accessories, that are ready for connection with a fluid pump system such as the Dolomite Nanoparticle Generation System.

Key Features:

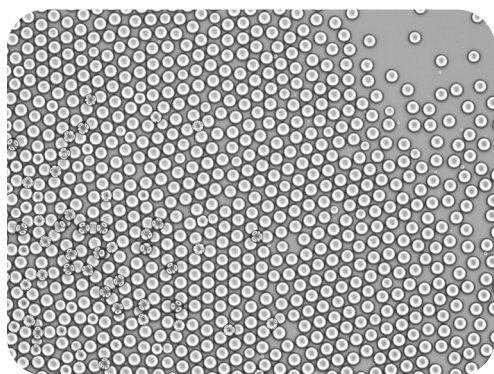
- Step-by-step protocols developed and tested by our formulation scientists
- Flexible synthesis tool to create uniform and reproducible nanoparticles
- Choose from standard glassware-based nanoprecipitation or microfluidic-based protocols
- Optimized to make nanoparticles 100–200 nm or microparticles 1–30 µm by nanoprecipitation or microfluidics with low polydispersity
- Based on non-toxic, biodegradable polymers
- Material screening kits available

Applications:

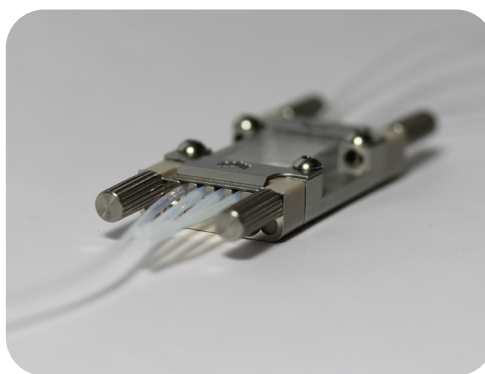
- Screening and selection of optimal formulation
- Selection of optimal size
- Optimization of drug encapsulation and loading efficiency
- Screening the optimal nano- and micro-formulation for enhancing drug bioavailability

EXPANSORB® polymers in NanoFabTx™ preclinical materials screening kits are available in GMP grade upon request.





Monodispersed microparticles fabricated using NanoFabTx™ formulation kits.



Microfluidic chip assembly in NanoFabTx™ device kit.

Cat. No.	Name	Description	Kit Components
909637	NanoFabTx™ PLGA-Nano, for synthesis of 100–200 nm particles	Reagent kit for the synthesis of 100–200 nm nanoparticles	PLGA Stabilizer
912220	NanoFabTx™ PLGA-Micro, for synthesis of 1–5 µm particles	Reagent kit for the synthesis of 1–5 µm microparticles	PLGA Stabilizer
912212	NanoFabTx™ PLGA-Micro, for synthesis of 10–30 µm particles	Reagent kit for the synthesis of 10–30 µm microparticles	PLGA Stabilizer
915408	NanoFabTx™ Materials screening kit, for synthesis of PEGylated polymeric nanoparticles	Reagent kit for the screening of optimal polymers for PEGylated nanoparticle formulation	PEGylated PLGA, PLA, and PCL Stabilizer
915149	NanoFabTx™ preclinical materials screening kit, for synthesis of polymeric nanoparticles	Reagent kit for the screening of optimal polymers for nanoparticle formulation	EXPANSORB® PLGA and PLA Stabilizer
978075	NanoFabTx™ PLA-Nano, for synthesis of 100–200 nm particles	Reagent kit for the synthesis of 100–200 nm nanoparticles	PLA Stabilizer
911593	NanoFabTx™ Microfluidic - Nano, device kit	Microfluidic device kit for synthesis of nanoparticles	Microfluidic chip Tubings and accessories
911860	NanoFabTx™ Microfluidic - Micro, device kit for synthesis of 1–5 µm particles	Microfluidic device kit for synthesis of 1–5 µm microparticles	Microfluidic chip Tubings and accessories
911879	NanoFabTx™ Microfluidic - Micro, device kit for synthesis of 10–30 µm particles	Microfluidic device kit for synthesis of 10–30 µm microparticles	Microfluidic chip Tubings and accessories



For a complete list of NanoFabTx™ formulation kits, visit:

[Sigma-Aldrich.com/nanofabtx](https://www.sigmaaldrich.com/nanofabtx)

To place an order or receive technical assistance in the U.S. and Canada, call toll-free 1-800-645-5476

For other countries across Europe and the world, please visit: [EMDMillipore.com/offices](https://www.emdmillipore.com/offices)

For Technical Service, please visit: [EMDMillipore.com/techservice](https://www.emdmillipore.com/techservice)

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