



PLGA NANOPARTICLES PRODUCTION STATION

PRODUCT DESCRIPTION

P/N: O-MIX-PLGANP-PCK



The Fluigent PLGA nanoparticle production station is a robust and a high-quality system for precisely control the production of monodisperse PLGA nanoparticles with high flexibility in changing particle sizes production. Its performance is coming from the combination of Fluigent's LineUP microfluidic pumps and the RayDrop device, a breakthrough technology for high-quality particles production.



DESCRIPTION

The Fluigent PLGA nanoparticle production station is a versatile system for the production of monodisperse PLGA nanoparticles with high flexibility, allowing for particle sizes over the range of 100-250 nm.





TECHNICAL SPECIFICATIONS

PLGA NANOPARTICLES PRODUCTION		
Inner phase	Acetone + Poly(lactic-co-glycolic acid) (PLGA) Resomer 756 1%	
Outer phase	Deionized water + Polyvinyl alcohol (PLGA) Mw 90000 – 10000 80 % hydrolyzed	
Particle size range*	100 to 250 nm	
Polydispersity*	From 5% to 15%	

FLOV	V CONTROL	SC	FTWARE
Pumps**	Fluigent Flow EZ™ (2 bar)	Live control	OxyGEN Software
Flow sensors**	Fluigent FLOW UNIT (M)	Automated	OxyGEN Software
Automated valves**	Fluigent 2-SWITCH™	Imaging	Pixelink Capture Software

IMAGING (OPTIONAL)		
Microscope	Fluigent Digital high-speed microscope	

* Depending on FRR (download the PLGA nanoparticle production application note for more information) **For detailed specification: download LineUP User Manuel, ESS User Manuel.