

Tailored Uniformity • Streamlined Control • Optimal Yield

DIANT® PILOT SERIES

The DIANT® PILOT SERIES includes the DIANT® FORMATION and DIANT® PILOT SPTFF as a continuous process, commercial lipid nanoparticle production system and industry-standard. Featuring patented turbulent jet technology and advanced analytical capabilities, the DIANT® PILOT SERIES offers precise control over particle size, uniformity, and quality

Lipid Nanoparticles (LNPs)

Liposomes

Nucleic Acid/Lipid Complexes

Polymeric Micelles

Suspensions

Specifications (FORMATION)

Flow Rates:	0.4 – 2 LPM
Max Output Flow:	2000 ml/min
Solvent Flow Rate:	40+ mL/min
Flow Rate Ratio:	2-8
Flow Meter Type:	Ultrasonic
Explosion-proof-rated design	
Single-use tubing assemblies	
21 CFR, Part 11 compliant software	



DIANT® JET MIXER Technology for Highest Throughput

The DIANT® PILOT FORMATION is a cGMP, commercial continuous nanoparticles processing solution. The patented DIANT® JET MIXER combines genetic material/API in buffer with lipids in solvents in a highly consistent manner

Seamless Scale-Up

The benchtop DIANT® LARU DISCOVERY and pilot-scale DIANT® PILOT SERIES all leverage the same core technology - the DIANT® JET MIXER technology

Continuous Manufacturing

Continuous nanoparticle processing for commercial production

Ease of Use

Standard connections for 2D Bags and 3D Bags

Multiple Program Options

Create and store runtime recipes to produce particles at different flow conditions for each project

Continuous, Single-Pass Platform

Additional inline modules transform the powerful DIANT® LiFT SERIES into a state-of-the-art single-pass, closed, continuous process

Inline Process Analytical Technology

The ground-breaking InProcess-LSP NanoFlowSizer™ uses SR-DLS to offer inline, non-destructive and accurate particle size measurements

Inline Single-use Sensors

Control the temperature of your sample by adding a TCU along with other custom-integrated sensors to monitor pH and conductivity

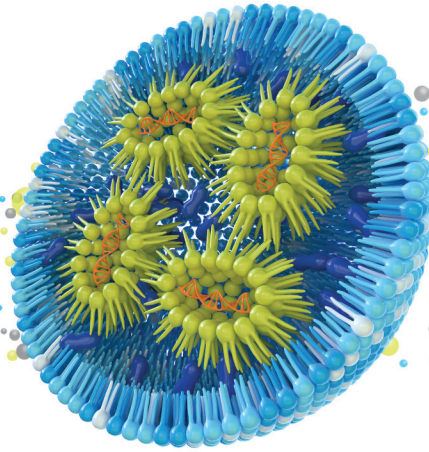
Tangential Flow Filtration

The DIANT® PILOT SPTFF uses a proprietary multi-stage tangential flow filtration system to reduce biofouling and allow for long runs while achieving up to 100x concentration

Intravesicular & Extravesicular Modifications

The DIANT® PILOT IEM is a continuous processing system for the controlled modification of pre-formed vesicular nanoparticles

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The **DIANT**[®] Solution

Continuous Processing Technology that provides



Fastest
Speed to Market



Highest Quality
Products



Greatest
Control



Smaller
Vessel Sizes



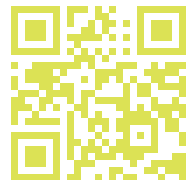
Smaller
Footprint



Highest Yield,
Less Waste

We appreciate your interest in DIANT's unmatched processing technology and are looking forward to partner with you to bring your nanoparticle processing to the next level !

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