

Tailored Uniformity • Streamlined Control • Optimal Yield

# DIANT® LIFT SERIES

The DIANT® LIFT SERIES includes the DIANT® LIFT FORMATION and DIANT® LIFT SPTFF as a continuous process, commercial lipid nanoparticle production system and industry-standard. Featuring patented turbulent jet technology and advanced analytical capabilities, the DIANT® LIFT 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 – 20 LPM
Max Output Flow:	20 LPM
Solvent Flow Rate:	40+ mL/min
Flow Rate Ratio:	2-8
Flow Meter Type:	Coriolis
Explosion-proof-rated design	
Single-use tubing assemblies	
21 CFR, Part 11 compliant software	



## DIANT® JET MIXER Technology for Highest Throughput

The DIANT® LIFT 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

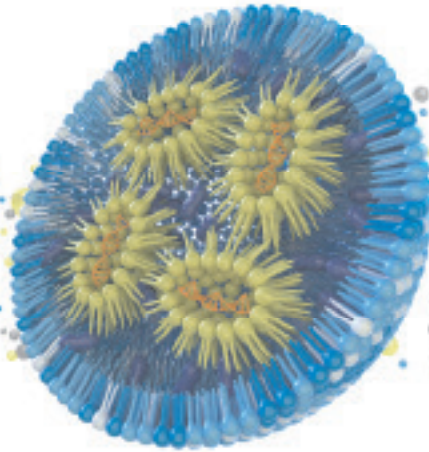
#### Tangential Flow Filtration

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

Tailored Uniformity • Streamlined Control • Optimal Yield



# The DIANT<sup>®</sup> Solution

Continuous Processing Technology that provides



Fastest  
Speed to Market



Highest Quality  
Products



Greatest  
Control



Smaller  
Vessel Sizes



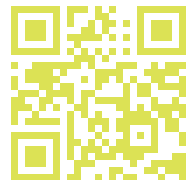
Smaller  
Footprint



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 !

**DIANT PHARMA INC.**  
130 Utopia Rd.  
Manchester CT, 06042  
USA  
info@diantpharma.com  
www.diantpharma.com



©DIANT<sup>®</sup> Pharma Inc. 2024