

Tailored Uniformity • Streamlined Control • Optimal Yield

# DIANT<sup>®</sup> LiFT cGMP, Commercial-Scale

The DIANT<sup>®</sup> LiFT is a continuous process system in commercial use at multiple GMP facilities. Featuring patented turbulent jet technology and advanced analytical capabilities, the DIANT<sup>®</sup> LiFT offers precise control over particle size, uniformity, and quality.

Lipid Nanoparticles (LNPs)

Liposomes

Nucleic Acid/Lipid Complexes

Polymeric Micelles

Suspensions

## DIANT<sup>®</sup> LiFT Specification

DIANT<sup>®</sup> LiFT Capacity: 0.8 – 2 LPM  
DIANT<sup>®</sup> LiFT HP Capacity: 0.8 – 20 LPM  
Max Output Flow: 400 ml/min  
Solvent Flow Rate: 20 mL/min  
Flow Rate Ratio: 2-8  
Explosion-proof-rated design  
CIP Design (SIP custom)  
21 CFR, Part 11 compliant software



## DIANT<sup>®</sup> Jet Technology for Highest Throughput

The DIANT<sup>®</sup> LiFT is a cGMP, commercial continuous nanoparticles processing solution. The patented DIANT<sup>®</sup> Jet mixer combines genetic material/API in buffer with lipids in solvents in a highly consistent manner

### Seamless Scale-Up

The benchtop DIANT<sup>®</sup> LARU and pilot-scale DIANT<sup>®</sup> PILOT all leverage the same core technology, removing the risks from the scaling process

### Continuous Manufacturing

Continuous nanoparticle processing for commercial production

### Ease of Use

Standard connections for bottles, tubes, or 2D bags

### Multiple Program Options

Create and store runtime recipes to produce particles at different flow conditions and for set durations

### Continuous, Single-Pass Platform

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

### Inline Process Analytical Technology

The ground-breaking InProcess-LSP NanoFlowSizer<sup>™</sup> uses SR-DLS to offer non-invasive, accurate particle size measurements

### Temperature and Sensors

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

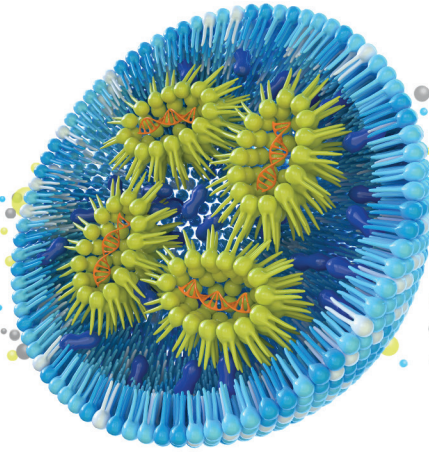
### Tangential Flow Filtration

The sp2TFF uses a proprietary multi-stage tangential flow filtration system to reduce biofouling and allow for long runs

### Intravesicular & Extravesicular Modifications

The DIANT<sup>®</sup> IEM is a continuous processing system for the controlled modification of pre-formed vesicular nanoparticles

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# The **DIANT**<sup>®</sup> Solution

Continuous Processing Technology that provides



Fastest  
Speed to Market



Highest Quality  
Products



Greatest  
Control



Smaller  
Vessel Sizes



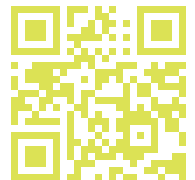
Smaller  
Footprint



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 !

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