

Tailored Uniformity • Streamlined Control • Optimal Yield

DIANT[®] LiFT cGMP, Commercial-Scale

Now industry-standard technology, the DIANT[®] LiFT is a continuous process commercial lipid nanoparticle production system. Featuring patented turbulent jet technology and advanced analytical capabilities, the DIANT[®] LiFT offers precise control over particle size, uniformity, and quality

Lipid Nanoparticles (LNPs)

Liposomes

Nucleic Acid/Lipid Complexes

Polymeric Micelles

Suspensions

DIANT[®] LiFT Specification

DIANT[®] LiFT Capacity: 0.8 – 2 LPM
DIANT[®] 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[®] Jet Technology for Highest Throughput

The DIANT[®] LiFT 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 and pilot-scale DIANT[®] 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[®] LiFT 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 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

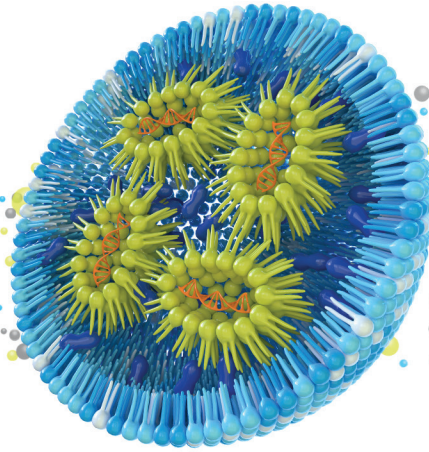
Tangential Flow Filtration

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

Intravesicular & Extravesicular Modifications

The DIANT[®] 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



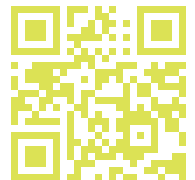
Smaller
Footprint



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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