

ONi

LNP PREP

Automated LNP characterization



TECHNICAL SPECIFICATIONS

LNP PREP

Description	The Lipid Nanoparticle Profiler Kit, PREP contains the necessary reagents to characterize sixteen (16) LNP samples with minimal hands-on time by leveraging the Aplo Flow automated sample preparation system.
SKU	900-00293
Compatibility	Aplo Flow, PREP
Number of Samples	Reagents and labware sufficient for 16 samples
Analysis Output	<p>LNP Report with:</p> <ul style="list-style-type: none"> - Particle count - Particle diameter (Mean, median, standard deviation, population distribution) - Polydispersity Index (PDI) - Positivity (normalized % of population for both ligand and cargo) - Relative cargo abundance (photon count) - Relative ligand abundance (localization per particle) - Montage panel of single LNPs images - Raw data (tiff and csv)
System Processing Time	~8 hrs for up to 16x sample processing from preparation to data report
Package Contents	<p>Surface Block</p> <ul style="list-style-type: none"> - LNP Surface Reagent - Anti-PEG Capture - LNP Wash Buffer - Four LNP Assay Chips, with four lanes each - Pan-LNP Detection (640) - Human IgG Ligand Detection (560) - Cargo Detection (488)

Packaging Format

Each kit contains

4x Chip Strips (prefilled with reagents)

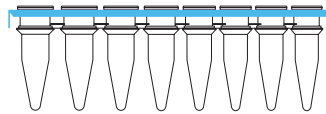
2x Chip Strips (empty, used for LNP samples)

1x 15ml bottle, ONI LNP wash buffer

4x LNP assay chips (4-lanes)

1x Microtube cargo detection (ships in secondary container with desiccant)

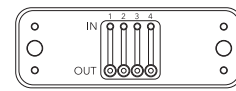
Chip strips



15ml bottle



4x lane chip



Microtube



Shelf Life

At least one (1) month (each kit marked with specific shelf life if longer)

Storage conditions

-20°C

Shipping conditions

Ships in a styrofoam shipper packed with dry ice

Intended use

Research use only

