PARALLEL

QUICK-START

How to formulate LNPs with the LNP Screening Array

FOR OPENTRONS FLEX

1 Set your output volume: 100–250 µL, 500 µL, 750 µL, or 1000 µL

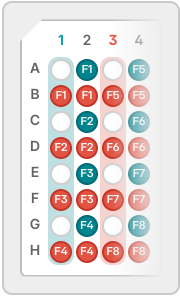
Typical collected volumes are within 50 µL of output volume targets.

2 Prepare your plates

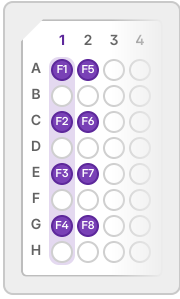
Load the source reagent plate according to the formulas and layout below. Your complete LNP formulations are dispensed into the sample collection plate.

WELL VOLUMES	Start column	Second column
Lipid phase	Leave empty	Output Vol × 0.25 + 50 µL
Aqueous phase	Output Vol × 0.50 + 50 µL	Output Vol × 0.25 + 50 µL

Source reagent plate



Sample collection plate



Legend

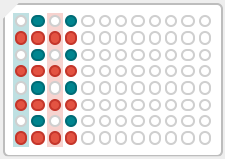
- **Lipid phase**
- **Aqueous phase**
- **LNP output**
- Source start column (left)
- Source start column (right)
- Sample collection start column

NOTE — Record all column locations. They will be entered into the automation user interface in a later step.

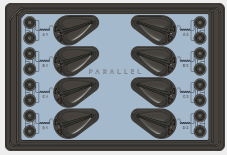
3 Arrange your deck

Position your source reagent plate, LNP Screening Array, and sample collection plate left to right as pictured. Ensure there are enough tip columns available for the formulation run based on the consumption table.

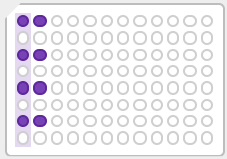
1 **Source reagent plate**



2 **LNP Screening Array with downholder**



3 **Sample collection plate**



Tip consumption

Output volume	100–250 µL	500 µL	750 µL	1000 µL
Tip columns per side of array	2	3	4	5

4 Run the method

Open the **LNP Screening Array** method on your automation system and follow the prompts to start your workflow.

Need help?

Reach out to our application team any time by emailing appsupport@parallelfluidics.com.