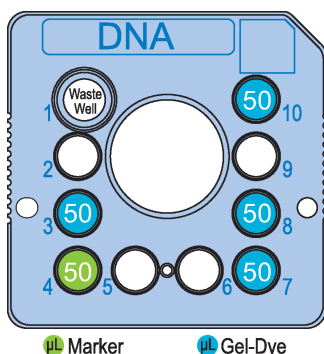


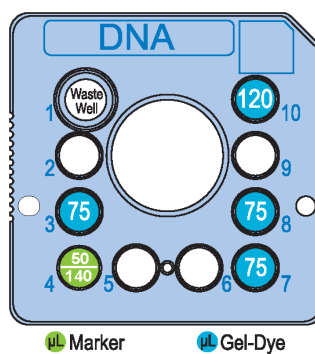
# LabChip® GX DNA Assay Dual Protocol Quick Guide

## Chip Preparation

1. Allow the chip and reagents to equilibrate to room temperature for about 20 minutes before use. **The Dye Concentrate** must be completely thawed and vortexed before use. One vial of DNA Gel Matrix is good for 4 Low-throughput chip preparations (for up to 48 samples) or 2 High-throughput chip preparations (for up to 384 samples).
2. Prepare Gel-Dye by adding 13  $\mu\text{L}$  DNA Dye Concentrate to 1 vial of DNA Gel Matrix. Vortex and transfer mixture into **two spin filters** (approximately 550  $\mu\text{L}$  per spin filter). Centrifuge at **9200 rcf for 7.5 minutes at room temperature**. Ensure that all of the gel has passed through the filter and then discard the filter. (**Note: Gel-Dye can be stored for up to 3 weeks in the dark at 4°C.**)
3. Rinse and aspirate each active well (1, 3, 4, 7, 8 and 10) twice with molecular biology grade water.
4. Using a Reverse Pipetting Technique add gel-dye to chip well 3, 7, 8 and 10 as shown in **Figure 1 (Low-throughput)** or **Figure 2 (High-throughput)**.
5. Add DNA Marker to chip well 4 as shown in **Figure 1 (Low-throughput)** or **Figure 2 (High-throughput)**. For the High-throughput chip preparation add 50  $\mu\text{L}$  DNA Marker for 96-well plates and 140  $\mu\text{L}$  DNA Marker for multiple 96-well plate analysis.
6. Clean both sides of the chip window with the supplied clean room cloth dampened with 70% isopropanol. (**Note: Ensure chip well 1 is empty before placing the chip on the LabChip GX.**)



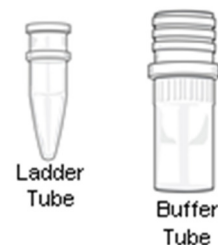
**Figure 1. Low-throughput**  
(Up to 48 samples)



**Figure 2. High-throughput**  
(Up to 384 samples)

## DNA Sample, Ladder and Buffer Preparation

1. In the provided 0.2 mL Ladder Tube, add 12  $\mu\text{L}$  DNA Ladder to 108  $\mu\text{L}$  of your 1X DNA sample buffer.
2. Recommended sample volumes are 25  $\mu\text{L}$  for a 384-well plate or 40  $\mu\text{L}$  for a 96-well plate.
3. Add 750  $\mu\text{L}$  of your 1X DNA sample buffer to the provided Buffer Tube.



For a complete DNA User Guide, go to  
[www.caliperls.com/chip-datasheets](http://www.caliperls.com/chip-datasheets)

