




LabChip GX DNA Assay Quick Guide

DNA Chip Preparation

1. Allow the chip and reagents to equilibrate to room temperature for about 20-30 minutes before use.
The Dye Concentrate must be completely thawed and vortexed before use.
2. Prepare Gel-Dye by adding **1.0 mL** DNA Gel Matrix  to **12.5 µL** DNA Dye Concentrate  using a Reverse Pipetting Technique. Vortex and transfer mixture to two spin filters. Centrifuge at **9200 rcf for 7.5 minutes at RT**. Ensure that all of the gel has passed through the filter and then discard the filter.
3. Rinse and aspirate each active well (1, 3, 4, 7, 8 and 10) twice with molecular biology grade water.
4. Add prepared Gel-Dye to chip wells 3, 7, 8 and 10 (as shown in Figure 1) using a Reverse Pipetting Technique.
5. Add DNA Marker  to chip well 4 (as shown in Figure 1). Add **50 µL** DNA Marker for 96-well plates and **140 µL** DNA Marker for 384-well plates or multiple 96-well plate analysis.
6. Clean both sides of the chip window with the supplied clean room cloth dampened with 70% isopropanol.

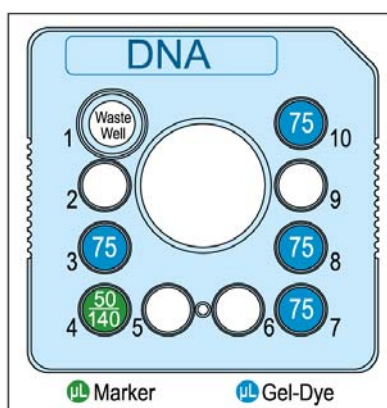



Figure 1

DNA Sample, Ladder, and Buffer Preparation

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

