**TapeStation: D1000 ScreenTape Assay**

*Walker Orr, 03/27/2023*

**Application**

Detect up to 5 pg/µL 35bp-1kb DNA.

**Required Equipment**

Agilent TapeStation

**Required Supplies**

Tape cartridge with enough remaining wells

**Required Reagents**

Loading buffer (2 µL/sample)

Ladder (2µL)

**Sample Workflow**

Total time:

Active time:

**General Comments:**

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| **Steps** |  |
| 1. Bring buffer and ladder to room temperature for **at least 30 minutes**. Briefly vortex and spin down. |  |
| 1. Launch the Agilent TapeStation Controller software. |  |
| 1. Load a High Sensitivity D1000 ScreenTape into the TapeStation machine. |  |
| 1. Prepare appropriate dilutions of your sample. For PCRs, dilute 1 µL sample in 9 µL water. This is to minimize leftover PCR buffer, which can interfere with the TapeStation. Label your tube so you know where the ladder is; it is always read from well A1 in the TapeStation. |  |
| 1. Prepare diluted samples for the TapeStation by combining **2 µL** sample with **2 µL** loading buffer () in PCR strip tubes. The ladder () will be prepared the same way. |  |
| 1. Vortex samples using the TapeStation vortexer: 2000 rpm for **1 minute.** Then, spin down. |  |
| 1. Cut lids off from strip tubes. |  |