

# Tapestri<sup>®</sup> DNA Training Checklist v3

## Objective

The aim of the DNA Tapestri training is to demonstrate the full functionality of the Tapestri Single Cell Platform, to train the operator(s) on the instrument, and to help the operator(s) familiarize themselves with the experimental workflow.

## Equipment/Reagents/Consumables Provided by Mission Bio

Item	Shipping Temperature	Storage Temperature
Tapestri Instrument	Ambient	Ambient
Self-install DNA Cartridge + Gasket	Ambient	Ambient
USB Drive	Ambient	Ambient
Base Plate	Ambient	Ambient
Tapestri Single-Cell DNA Cartridge Kit v3	Ambient	Ambient
Tapestri Single-Cell DNA 2-Rxn +4 °C Kit v3	Ambient	+4 °C
Tapestri Single-Cell DNA 2-Rxn -20 °C Kit v3	-20 °C	-20 °C
Tapestri Single-Cell DNA 2-Rxn Bead Kit v3	-20 °C	-20 °C
Tapestri Single-Cell DNA Myeloid Panel	Ambient	-20 °C

## Equipment Provided by Customer

- P-10, P-200, P-1000 single-channel pipettes
- Pipette aid for serological pipettes
- Thermal cycler programmable with temperature ramp rates from 1 °C/s to 4 °C/s
- Vortexer
- Heat block holding 1.5 mL Eppendorf tubes
- Benchtop centrifuge (temperature controlled, with swinging buckets), mini centrifuge
- 1.5 mL magnetic separation rack (New England Biolabs, S1506S or equivalent)
- 0.2 mL 8-strip PCR tube magnetic rack (Thermo Fisher 492025 or equivalent)
- Countess<sup>®</sup> 3 FL Automated Cell Counter (Thermo Fisher AMQAF2001 or equivalent), Light Cubes (AMEP4955 and AMEP4950) and slides
- \*Qubit Fluorometer (Thermo Fisher, Q33238)
- Agilent Bioanalyzer or TapeStation (or equivalent)

\*Do not substitute.

## Sample Provided by Customer

- Training cells
  - K562, RAJI or equivalent (BSL-2 or lower, human, cell size <30 µm)
  - 2+ replicates with 1 x 10<sup>6</sup> cells each, cryopreserved or in culture
  - Suggested vendor (USA): ATCC (Example: [K562](#), [RAJI](#))

## Reagents/Consumables Provided by Customer

**IMPORTANT** Please ensure that all listed reagents are ready to use and not expired.

- \*Emulsion-safe PCR tubes (one of the following):
  - 0.2 mL Axygen MAXYmum Recovery PCR Tubes (Axygen, PCR-02-L-C or PCR-02D-L-C)
  - 0.2 mL TempAssure PCR Flex-Free 8-Tube Strips (USA Scient., 1402-4700, color: natural)
  - 0.2 mL 8-Strip Non-Flex PCR Tubes (Starlab, I1402-3700, color: natural, for Europe)
- 200 µL gel tips (Axygen, TGL200RD57R or equivalent)
- Nuclease-free microcentrifuge tubes (1.5 mL, 0.2 mL), 8-strip 0.2 mL tubes
- DNase-free filter pipette tips (P-10, P-200, P-1000)(P-10, P-200, P-1000)
- Serological pipettes (5 mL and 10 mL)
- 15 mL DNA conical tubes (Eppendorf, low-bind [30122208] or regular-bind [30122151])
- 1.5 mL DNA low-bind tubes (Eppendorf, 0030108035)
- Ethanol, molecular biology grade (Sigma, E7023 or equivalent)
- DPBS w/o Ca<sup>2+</sup>/Mg<sup>2+</sup> (1X)
- Nuclease-free water
- Propidium iodide (Thermo Fisher, P3566)
- \*AMPure XP Reagent (Beckman Coulter, A63880)
- Agilent High Sensitivity DNA Kit for BioAnalyzer or TapeStation (or equivalent)
- \*Qubit<sup>®</sup> dsDNA HS Assay Kit + Assay Tubes (Thermo Fisher Scientific, Q32851 and Q32856)
- [OPTIONAL] Trypan blue (Thermo Fisher, 15250061 or equivalent)

\*Do not substitute.

Note that part numbers for third-party vendors may change. If you have any questions, please contact [support@missionbio.com](mailto:support@missionbio.com).