

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

## Objective

The aim of DNA+Protein Tapestri training is to demonstrate the full functionality of the Tapestri Single Cell Multi-omics 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
Protein Staining Kit	Ambient	+4 °C
TotalSeq™-D Heme Oncology Cocktail (2 tubes)	Ambient	+4 °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
- Rotating shaker (Thermo Fisher, 15920D or equivalent)
- 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, cell size <30 µm)
  - 2+ replicates with 1-2 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)
- Wide bore pipette tips (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)
- 1.5 mL protein low-bind tubes (Eppendorf, 22431081)
- 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 + Tubes (ThermoFisher Scientific, Q32851)
- \*Cell Staining Buffer (BioLegend, 420201)
- \*Human TruStain FcX (Fc Receptor Blocking Solution) (BioLegend, 422301)
- [OPTIONAL] Flowmi<sup>™</sup> Cell Strainers for 1000 µL pipette tips, 40 µm (Fisher Scientific, 14-100-150)
- [OPTIONAL] EasySep<sup>™</sup> Dead Cell Removal Kit (Stemcell Technologies, 17899)
- [OPTIONAL] Calcium Chloride (for use with Dead Cell Removal Kit) (Millipore Sigma, 10043524)
- [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).