

# Tapestri® DNA + RNA + Protein Training Checklist

## 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 RNA Expression -20 °C Kit             | -20 °C               | -20 °C              |
| Tapestri Single-Cell RNA Expression +4 °C Kit              | -20 °C               | +4 °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              |
| Tapestri Single-Cell Targeted RNA Expression Catalog 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
- ☐ PCR skirt for 0.2 mL PCR tubes in the thermal cycler
- ☐ 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® 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)

## RNA Specific Equipment Provided by Customer

- ☐ Horizontal Gel Electrophoresis Unit (ThermoFisher G9110 or equivalent)

- ☐ E-Gel Camera (ThermoFisher G9200 or equivalent)
- ☐ Safe Imager Viewing Glasses (ThermoFisher S37103 or equivalent)
- ☐ Laboratory balance (for weighing 1.5 mL tubes during gel extraction)

## Protein Specific Equipment Provided by Customer

- ☐ Rotating shaker (Thermo Fisher, 15920D or equivalent)

## 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, 11402-3700, 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)
- ☐ Ethanol, molecular biology grade (Sigma, E7023 or equivalent)
- ☐ DPBS w/o Ca<sup>2+</sup>/Mg<sup>2+</sup> (1X) (Gibco 14190-144 or equivalent)
- ☐ Nuclease-free water
- ☐ [OPTIONAL] Propidium iodide (Thermo Fisher, P3566)
- ☐ \*AMPure XP Reagent (Beckman Coulter, A63880)
- ☐ Agilent High Sensitivity DNA Kit for BioAnalyzer or TapeStation (or equivalent)
- ☐ \*Qubit® dsDNA HS Assay Kit + Tubes (ThermoFisher Scientific, Q32851)
- ☐ Sterile single-pack CellTrics™ filters, 30 µm (Sysmex 04-004-2326)
- ☐ [OPTIONAL] Flowmi™ Cell Strainers for 1000 µL pipette tips, 40 µm (Fisher Scientific, 14-100-150)
- ☐ [OPTIONAL] Trypan blue (Thermo Fisher, 15250061 or equivalent)

## RNA Specific Reagents/Consumables

- ☐ RNaseZap™ (Invitrogen AM9780)
- ☐ Invitrogen™ E-Gel™ Sizing DNA Ladder (ThermoFisher 10-488-100)
- ☐ Zymoclean Gel DNA Recovery Kit (Zymo Research D4001)

- ❑ E-Gel® EX 2% Precast Agarose Gel with SYBR® Gold II DNA Gel Stain (ThermoFisher G401002 or equivalent)
- ❑ Gel Knife (spatula) (ThermoFisher EI9010 or equivalent)
- ❑ Surgical Design Disposable Scalpels (# 11) (FisherScientific 22-079-708 or equivalent)
- ❑ [OPTIONAL] EasySep™ Dead Cell Removal Kit (Stemcell Technologies, 17899)†
- ❑ [OPTIONAL] Calcium Chloride (for use with Dead Cell Removal Kit) (Millipore Sigma, 10043524)†

## Protein Specific Reagents/Consumables

- ❑ 1.5 mL protein low-bind tubes (Eppendorf, 22431081)
- ❑ \*Cell Staining Buffer (BioLegend, 420201)
- ❑ \*Human TruStain FcX (Fc Receptor Blocking Solution) (BioLegend, 422301)
- ❑ [OPTIONAL] EasySep™ Dead Cell Removal Kit (Stemcell Technologies, 17899)†
- ❑ [OPTIONAL] Calcium Chloride (for use with Dead Cell Removal Kit) (Millipore Sigma, 10043524)†

\*Do not substitute.

†Same item is listed in both the RNA Specific and Protein Specific sections.

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