

 tapestri

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Tapestri[®]

Instrument Site Requirements

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About This Guide

This User Guide describes the site requirements for installation and use of the Tapestri Platform.

Site Requirements

Introduction

An authorized Mission Bio representative must install the Tapestri Instrument and train all users. Mission Bio technical support will schedule a time to install the instrument at your site and train your staff to use it. Before a Mission Bio service representative arrives to install the instrument, choose and prepare your site according to the instructions in this document. Notify your Mission Bio representative if special shipping arrangements are necessary at your site, or if you need assistance in placing the Tapestri Instrument.

Site Preparation Workflow

Follow these steps to choose and prepare your site:

1. Review this guide.
2. Review the list of required equipment and ancillary equipment.
3. Select a site for the Tapestri Instrument that meets Mission Bio requirements.
4. Stock the site with the required safety equipment.
5. Receive the Tapestri Instrument and perform a visual check of the shipment container.
If damage is apparent, contact Mission Bio technical support at **support@missionbio.com**.
6. Place the boxed components at their final destination.

Review This Guide

Use this guide for information on all Mission Bio site requirements, including safety, environmental, electrical, and space requirements.

Review Equipment List

Review the following list of equipment that is needed to run a full Tapestri workflow.

Required Equipment	Suggested Supplier (Part Number)
MB Tapestri Instrument	Mission Bio (191335)
Countess® II Automated Cell Counter or equivalent	Thermo Fisher (AMQAX1000)
Agilent 2100 Bioanalyzer or Tapestation	Bioanalyzer: Agilent (G2939BA)
Qubit Fluorometer or Agilent 2100 Bioanalyzer	Qubit: Thermo Fisher (Q33216)
Pipettes, 1 µl - 1000 µl	Mettler-Toledo, Rainin Pipettes
8 channel multi pipette	Mettler-Toledo, Rainin Pipettes
* UV light source, <i>only in select instruments</i>	Analytik Jena Blak-Ray (XX-15L)
Microcentrifuge (1.5 mL, 0.2 mL)	Thermo Fisher (75004081)
Tube Vortexer	Thermo Fisher (88880017TS)
Thermal Mixer	Thermo Fisher (13687717) or Approved Supplier
Thermal cycler with heated lid (100 µl volume)	Thermo Fisher (A24811) or Approved Supplier
0.2 mL 8-strip PCR tube Magnetic Separation Stand	Seqmatic (TM-700) or Approved Supplier
Sequencing Instrument	Illumina

NOTE * **Wattage and wavelength of UV light are critical. Only the listed instrument has been validated by Mission Bio. Do not substitute.**

For a complete list of reagents, consumables, and additional equipment, consult the *Tapestri Single-Cell DNA Sequencing User Guide (PN 3354)*.

Select a Site for the Tapestri Instrument

When considering a site, keep the following requirements in mind:

- Environmental conditions
- Laboratory bench requirements
- Electrical requirements

WARNING

Installation cannot be completed at a site designated Biosafety Level 3 (BSL-3) or Biosafety Level 4 (BSL-4). Mission Bio does not install, service, or repair the Tapestri Instrument in areas designated BSL-3 or BSL-4.

Environmental Conditions

Condition	Requirement	Comment
Altitude	Not exceeding 6,562 ft (2,000 m) above sea level	The Tapestri Instrument is for use at altitudes not exceeding 6,562 ft (2,000 m) above sea level. If your facility is located above this elevation, contact technical support at support@missionbio.com .
Temperature	Ambient temperature range: 15 °C – 30 °C (59 °F – 86 °F)	Do not locate the Tapestri Instrument next to heat sources or cooling ducts, or in direct sunlight or extreme ambient lighting. Temperature extremes can cause instrument instability. The Tapestri Platform is designed to be used indoors only.
Humidity	Maintain 5 – 85 % relative humidity, non-condensing	
Pollution	The Tapestri Instrument requires standard laboratory environments.	Do not install the Tapestri Instrument where conductive pollutants are present.
Ventilation Requirements	Maintain 4 in (10.2 cm) of clearance must be maintained at the vents (back of instrument).	The Tapestri Instrument produces only hot air exhaust (no fumes or vapors).

Laboratory Bench Requirements

The laboratory bench must support at least **100 lb (45.4 kg)**. Clear an appropriate space of these dimensions: **12.5 in high x 11.75 in wide x 12.25 in deep (31.75 x 29.85 x 31.11 cm)**, as shown in the following figure.



Figure 1 Tapestri Instrument dimensions

Electrical Requirements

Installation: Category II

The Tapestri Instrument requires one electrical power outlet. The instrument uses 100 – 240 V AC power at 50 – 60 Hz, 2.0 A maximum, as shown in the following table.

Instrument Location	Voltage (VAC)	Frequency (Hz)	Maximum Current (A)	Typical Average Power Consumption (W)
U.S., Canada	115 ± 10 %	50 – 60 ± 1 %	1 A	Idle: 20 W Operating: 60 W
Europe, Australia	230 ± 10 %	50 – 60 ± 1 %	0.5 A	Idle: 20W Operating: 60 W
Japan	100 ± 10 %	50 – 60 ± 1 %	1 A	Idle: 20W Operating: 60 W

POWER CORD REQUIREMENTS

Mission Bio will provide a country-specific power cord.

Instrument Location	Minimum Wire Gauge (AWG)	Maximum Length (m)	Instrument End Plug	Receptacle End Plug
Canada, Japan, U.S.	18	2	IEC C13	Country-specific
Europe, Australia	16	2	IEC C13	Country-specific

RECEPTACLE (OUTLET, SOCKET) REQUIREMENTS

When connecting the instrument to a receptacle, check with your facility manager to ensure the circuit will not be overloaded. If you are connecting multiple instruments to the same electrical receptacle, or circuit, make sure the sum of all the instruments' maximum current draw is within the circuit's current limit. Receptacles must be grounded.

IMPORTANT *Do not use extension cords.*

UNINTERRUPTIBLE POWER SUPPLY RECOMMENDATION

If your Tapestri Instrument is installed in a region that has electrical voltage fluctuations exceeding $\pm 10\%$ of the normal value, protect the instrument with an uninterruptible power supply (UPS). Fluctuating voltage can compromise the Tapestri Instrument. The minimum requirements for the UPS to maintain power on the instrument are shown in the following table.

Conditions	Requirements
Output Power Capacity	1500 VA/900 W
Backup Time (Run Time)	80 min
Power Draw (Load)	100 W

DISCONNECTING POWER

Make sure the user can immediately disconnect the main power supply to the instrument in case of emergency.

Stock the Site

Safety personnel at your location must ensure that safety policies to protect laboratory personnel from potential harm are established and are followed by personnel. Also, all necessary safety devices and equipment including the equipment listed below must be in the laboratory, or in close proximity as specified by safety policies at your location.

Required Safety Equipment

Mission Bio expects your laboratory to have safety policies in place to protect laboratory personnel from potential harm. We expect appropriate safety practices to be followed at all times.

Safety equipment that must be at the installation location includes:

- Adequate ventilation, including vent line/fume hood, if applicable
- Safety shower
- Eyewash station
- Biohazard waste container, if applicable
- Protection from potentially infectious biological material, hazardous chemicals, and radiation that may be present in the area where Mission Bio service representative(s) will be working
- Spill cleanup equipment
- First-aid equipment
- Eye and hand protection
- Fire extinguisher

You are responsible for providing an appropriate fire extinguisher for use on or near the Tapestri Instrument. The fire extinguisher must be appropriate for use on chemical and electrical fires and be approved by your local fire marshal or other authority having jurisdiction in your area.

Receive and Inspect the Instrument

NOTE Do not unpack the Tapestri Instrument crate prior to installation.

For new Tapestri Instrument installations, you can anticipate receiving:

- Tapestri Instrument, boxed
- Instrument accessories (cable, Base Plate), boxed
- Installation cartridge + gasket
- USB drive
- Reagent kit (if ordered)

Inspection

Use this checklist to confirm inspection of the components:

- Packing list checked against the original order
- All boxes and crates checked for damage
- All damage (if any) noted and reported to a Mission Bio service representative
- Reagent kit (if ordered) located and unpacked immediately
- All reagents stored at the appropriate temperature according to the instructions

Instrument Size and Weight Specifications

Specifications	Tapestri Instrument
Packaged	
Weight	20 lb (9.07 kg)
Dimension	19.75 in x 17.0 in x 18.5 in (50.17 cm x 43.18 cm x 46.99 cm)
Unpackaged	
Weight	14 lb (6.35 kg)
Dimensions	12.5 in x 11.75 in x 12.25 in (31.75 cm x 29.85 cm x 31.10 cm)

Path Clearances

Clear a path from the loading dock to the laboratory bench. Make sure the path will accommodate the dimensions of the crate.

Place the Instrument at the Site

Remove all unnecessary materials from the proposed installation site prior to the arrival of the Mission Bio service representative.

Make sure the crated Tapestri Instrument is at its permanent location prior to the arrival of the Mission Bio service representative. Wait for the Mission Bio representative to arrive before unpacking the crate.

Installation Readiness Check

Before the installation date, make sure you have completed the following:

- Removed all unnecessary materials from the proposed final installation site
- Received the instrument and performed a visual check of the crate and containers
- Moved the crated and boxed equipment from the receiving location to the installation area

Contact Mission Bio if you require assistance with any of these steps.

Installation Time Estimate

Installation of the Tapestri Instrument is estimated to take 30 minutes and can be conducted by the customer. Please consult the chapter **Installing the Tapestri Instrument** of the the **Tapestri Single-Cell Instrument User Guide (PN 52975)** for additional information. *Site issues and other factors may delay or extend the installation time.*



Visit www.missionbio.com for additional support.