**Equipment Name: Illumina MiSeq**

Before purchasing equipment, verify that the following requirements are, or can be, met:

| Requirement | Requirement Met? | Comments |
| --- | --- | --- |
| Electrical[ ]  100-110 V AC with 10-amp grounded dedicated lineOR[ ]  220-240 V AC with 6-amp grounded line  | Yes [ ]  No [ ]  |  |
| Wattage[ ]  400 Watts | Yes [ ]  No [ ]  |  |
| Required Power Protection[ ]  Uninterrupted Power Supply (APC Back-UPS Pro #BR1500G, recommended, other similar UPS acceptable)  | Yes [ ]  No [ ]  |  |
| WaterAccess to one of the following types of laboratory grade water:[ ]  Illumina PW1[ ]  18 Megohm water[ ]  Milli-Q water [ ]  Super-Q water[ ]  Molecular biology-grade water | Yes [ ]  No [ ]  |  |
| Waste[ ]  Create profile within CDC on-line Hazardous Waste Turn-In System  | Yes [ ]  No [ ]  |  |
| Ventilation[ ]  Sufficient for MiSeq thermal output of  1,364 Btu/h Note: The thermal output of 1,364 Btu/h is for the MiSeq only; ventilation should be sufficient for the total thermal output of the room. | Yes [ ]  No [ ]  |  |
| Operating Temperature Range [ ]  19˚-25˚CNote: Verify with facilities that the temperature range is maintained 24 hours a day, 7 days a week; monitor prior to instrument arrival. | Yes [ ]  No [ ]  |  |
| Operating Humidity Range[ ]  30–75% | Yes [ ]  No [ ]  |  |
| Elevation[ ]  Below 2,000 meters (6,500 feet) | Yes [ ]  No [ ]  |  |
| Air Quality[ ]  Pollution Degree II environment or better | Yes [ ]  No [ ]  |  |
| Vibration Specifications* Dedicated, sturdy, and immobilized lab bench without castors
* No shaker, vortexer, centrifuge, heavy fans, etc. on same bench
* Away from frequently-used doors
* No keyboard tray below the bench
* Do not touch the instrument or open the reagent compartment or flow cell compartment during sequencing.
* Do not place objects on top of the instrument.

Note: Equipment is sensitive to vibrations. | Yes [ ]  No [ ]  |  |
| Network ConnectionsYes [ ]  No [ ]  Note: Use a 1 gigabit connection between the instrument and your data management system. This connection can be made directly or through a network switch. Upon connection to a network, configure Windows Update so that theMiSeq does not automatically update. Illumina recommends waiting one month after a Windows release before allowing an update. | Yes [ ]  No [ ]  | If No, explain: |
| External Data StorageYes [ ]  No [ ]  Note: To request SciComp storage:* Go to <http://info.biotech.cdc.gov/>
* Click on “Support”
* Click on “Sequencer Storage Request”
* Complete form and submit
 | Yes [ ]  No [ ]  | If Yes, specify (e.g. SciComp):If No, explain: |
| Door/Elevator/Access Point ClearanceCrated Dimensions and Weight* Height: 30.25 in
* Width (side to side): 28.5 in
* Depth (front to back): 33 in
* Weight: 200 lbs
 | Yes [ ]  No [ ]  |  |
| Lab Bench Requirements* Width: 48 in
* Height: 36 in
* Depth: 30 in
* Instrument Weight: 126 lbs
* Casters: No
 | Yes [ ]  No [ ]  |  |
| Operating ClearanceInstrument Dimensions* Height: 20.6 in
* Width (side to side): 27 in
* Depth (front to back): 22.2 in
* Weight: 126 lbs.

Clearance Requirements* Back Clearance: 4 in
* Side Clearance: 24 in (each side)
* Top Clearance: 24 in
* Usage Access: power switch on right side of instrument
 | Yes [ ]  No [ ]  |  |
| Dedicated Physically Separate Areas (If using MiSeq for sequencing PCR amplicons)[ ]  Dedicate physically separate pre-PCR laboratory space where pre-PCR processes are performed (DNA extraction, quantification, and normalization)[ ]  Dedicate physically separate post-PCR laboratory space where PCR products are made and processed[ ]  Dedicate separate full sets of equipment and supplies (pipettes, incubator, heat block, vortexer, centrifuge, etc.) to pre-PCR and post-PCR lab processes. Do not share equipment and supplies between processes[ ]  Dedicate separate storage areas (freezers and refrigerators) for pre-PCR and post-PCR consumablesNote: Do not use the same sink to wash pre-PCR and post-PCR materials. Do not share water purification systems for pre-PCR and post-PCR processes. Store all supplies used in pre-PCR protocols in the pre-PCR area, and transfer to the post-PCR area as needed. | Yes [ ]  No [ ] N/A [ ]  |  |
| Documentation[ ]  Training Documents[ ]  Equipment Maintenance Documents[ ]  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Yes [ ]  No [ ]  |  |
| Ancillary equipment required Access to or acquisition of the following:[ ]  Automated Liquid Handler (optional)[ ]  Thermocycler[ ]  Instrument for sizing, quantitation, and quality check of DNA (e.g.Bioanalyzer, TapeStation, Qubit)[ ]  Instrument for shearing DNA (e.g. Covaris) (optional depending on library prep method)[ ]  Benchtop centrifuge, plate centrifuge[ ]  Other: ­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Yes [ ]  No [ ]  |  |
| Other Requirement(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [ ]  N/A | Yes [ ]  No [ ]  |  |

**\*References:** MiSeq System Guide Doc # 15027617 v01 Spetember 2015

**Completed By (signature): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Approved By (signature): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**