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| --- |
| ***Insert Laboratory Specific Name Here*** |
| **MinION Pre-Installation Checklist** |

**Equipment Name: Oxford Nanopore Technologies, MinION**

| Before purchasing equipment, verify that the following requirements are, or can be, met:Requirement | Requirement Met? | Comments |
| --- | --- | --- |
| Electrical[ ]  SS USB portNote: Plugs directly into a laptop or desktop  | Yes [ ]  No [ ]  |  |
| Operating Systems[ ]  Windows 7, 8, 10[ ]  OSX Sierra, High Sierra (64 bit)[ ]  Linux- Ubuntu 14.04 or 16.04 | Yes [ ]  No [ ]  |  |
| Memory/RAM[ ]  16 GB RAM  | Yes [ ]  No [ ]  |  |
| CPU[ ]  i7 or XeonNote: Users need to verify that their i7 is a four core model or better | Yes [ ]  No [ ]  |  |
| Storage[ ]  1 TB internal SSD[ ]  MinIT Note: Recommended that MinION software, MinKNOW, is installed to the internal SSD, rather than the main operating system driveNote: MinIT is a companion to the MinION personal DNA/RNA sequencer. It is pre-configured with the software that controls the MinION (MinKNOW), carries out data acquisition and performs basecalling | Yes [ ]  No [ ]  |  |
| Network Connections[ ]  Internet connection is required at all times for software updates and telemetryNote: Offline configurations can be made available for field use and expeditions. MinIT can be used to perform offline base calling and an offline version of MinKNOW is available. Please contact MinION support  | Yes [ ]  No [ ]  | If No, explain: |
| Antivirus Settings[ ]  Manual antivirus scanningNote: Antivirus software scanning the entire hard drive uses significant amounts of resources and maycause performance issues. For this reason, it is recommended that the scans are switched tomanual setting, rather than to automatic, so that they can be performed when the MinION is not in use | Yes [ ]  No [ ]  |  |
| Updates[ ]  OS system updates should be switched to manual modeNote: Downloading OS system updates during a sequence experiment may impact performance and updates that require restart will fatally halt a run  | Yes [ ]  No [ ]  |  |
| ConsumablesThere are a number of different sets of equipment, consumables, and third party consumables that you will need in order to perform the sequencing experiment. Select your consumables required to perform the library prep:  | Yes [ ]  No [ ]  |  |
| Waste[ ]  Reference SOP:“MinION Flow Cell Waste Disposal Procedure” | Yes [ ]  No [ ]  |  |
| Operating ClearanceInstrument Dimensions* Measuring 10 x 3 x 2 cm
* Weight: <100g
 | Yes [ ]  No [ ]  |  |
| Dedicated Physically Separate Areas [ ]  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:[ ]  Thermocycler or heat block[ ]  Instrument for sizing, quantitation, and quality check of DNA (e.g.Bioanalyzer, TapeStation, Qubit, Nanodrop)[ ]  Instrument for shearing DNA (e.g. Covaris) (optional depending on library prep method)[ ]  Benchtop centrifuge, plate centrifuge, hula mixer[ ]  Other: ­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Yes [ ]  No [ ]  |  |
| Other Requirement(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  [ ]  N/A | Yes [ ]  No [ ]  |  |

**\*References:**

MinION IT Requirements: <https://community.nanoporetech.com/requirements_documents/minion-it-reqs.pdf>

MinION Flow Cell Waste Disposal Procedure

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

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

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

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