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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 port  Note: 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 Xeon  Note: 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 drive  Note: 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 telemetry  Note: 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 scanning  Note: 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 mode  Note: Downloading OS system updates during a sequence experiment may impact performance and updates that require restart will fatally halt a run | Yes  No |  |
| Consumables  There 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 Clearance  Instrument 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 consumables  Note: 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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**