

Resource Summary Report

Generated by [dkNET](#) on Sep 13, 2026

Procedure for Operation and Maintenance of the Illumina MiSeq for Whole Genome Sequencing

DOI:10.17504/protocols.io.bja6kihe

Type: Protocol

Proper Citation

Julie Haendiges, Ruth Timme, Maria Balkey 2020. Procedure for Operation and Maintenance of the Illumina MiSeq for Whole Genome Sequencing. protocols.io dx.doi.org/10.17504/protocols.io.bja6kihe

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bja6kihe>

Authors: Julie Haendiges, Ruth Timme, Maria Balkey

Group: GenomeTrakr

Summary: This procedure outlines the procedures for operation and maintenance of an Illumina MiSeq Sequencer for Whole Genom Sequencing. This document applies to all laboratory personnel in the Division of Microbiology (DM) as well as laboratories in the GenomeTrakr Network. Complete in order: 1. DNA Extraction (Manual DNA Extraction or Automated DNA Extraction using the Qiacube) Step-by-step procedures to obtain high quality DNA from isolates in TSB for whole genome sequencing. 2. DNA Quantitation Quantitation of extracted DNA using the Qubit Fluorometer 3. Library Preparation for WGS (Library Preparation using Illumina DNA Prep or Library Preparation using Illumina Nextera XT) Library preparation using NexteraXT or Illumina DNA Prep (previously Nextera DNA Flex) 2. DNA Quantitation Quantitation of extracted DNA using the Qubit Fluorometer 3. Library Preparation for WGS (Library Preparation using Illumina DNA Prep or Library Preparation using Illumina Nextera XT) Library preparation using NexteraXT or Illumina DNA Prep (previously Nextera DNA Flex) 3. Library Preparation for WGS (Library Preparation using Illumina DNA Prep or Library Preparation using Illumina Nextera XT) 4. Sequencing using Illumina MiSeq (Included SOP) 5. Data Quality Checks and NCBI Submission

Affiliations: US Food and Drug Administration, US Food and Drug Administration, US Food and Drug Administration

Version: 1

Publication Date: 2020

Proper Citation: Julie Haendiges, Ruth Timme, Maria Balkey 2020. Procedure for Operation and Maintenance of the Illumina MiSeq for Whole Genome Sequencing. protocols.io dx.doi.org/10.17504/protocols.io.bja6kihe

Record Creation Time: 20210329T220515+0000

Record Last Update: 20210329T220827+0000

Data and Source Information

Source: