

Protocol for submitting DNA for Illumina sequencing genomes Nextera Flex library prep kit

Version: 2019

Summary:

This protocol is for the submission of DNA for the generation of paired-end libraries using the Illumina [Nextera DNA Flex library prep kit](#) (Cat. Numbers: 20018705 and 20018708). DNA is quantified using a fluorometric-based method and diluted to a similar concentration range. Libraries are prepared using the Nextera Flex library kit, which uses an enzymatic reaction called tagmentation to fragment the DNA and add adapter sequences.

Reagents and Materials:

Reagent/Material	Vendor	Stock Number
Aluminum foil, sterile	VWR	89049-034
Full-skirted PCR plate (twin.tec)	Eppendorf	951020401

Protocol:

1. In a clean hood, add 20 μ L of DNA to each well of the twin.tec plates. Samples should have a concentration between 1 to 5 ng/ μ L. Add up to 96 samples per plate. Seal with sterile foil seal. Clearly label plates with PI, Reference ID, Plate number and date.

IMPORTANT: Seal plates very well to reduce evaporation and cross contamination between wells.

2. Fill out submission [form](#).
3. Send electronic plate map and shipment tracking information (if apply) to msmblcore@umich.edu.
4. Sample submission:

- **Plates can be drop off to our lab.** We are located in MSRB1, room 1500. Lab hours: 8am-3:30pm (Monday to Friday). Let us know when we should expect your samples.
- **Plates can be shipped on dry ice.** Please fill empty space within the Styrofoam shipping container with packing material to prevent contents from shifting during transport. International shipping should be done through a courier service. Please refer to federal regulations regarding the shipping of biological specimens on dry ice. ***Please include reference ID on package documentation.***

Deliver on dry ice to:

Host Microbiome Initiative
University of Michigan Medical School
Internal Medicine/Infectious Diseases
1500 MSRB1
1150 W. Medical Center Drive
Ann Arbor, MI 48109-5666