Microsynth

miCORE Whole Genome Metagenomics

Accepted Samples

- **Isolation Material:** If you'd like us to perform DNA isolation on your samples, please prepare them according to the instructions in our user guide: UserGuide_NA_Isolation.
- **Isolated DNA**: Follow the instructions in this user guide to prepare your DNA sample. Ensure the prepared DNA is free from any inhibitors that could affect the PCR reaction. We recommend using procedures and kits specifically designed for microbiome DNA isolation. Please be aware that depending on the origin of your samples, the isolated DNA may contain not only microbiome DNA but also host or matrix DNA. For optimal results, dissolve the samples in DNase-free water or a 10 mM Tris-HCl buffer (pH 7.5 - 8.5).

Sample Amounts and Concentrations

Amount and Concentration of DNA	Container
Provide at least 75 ng of total DNA per sample at a concentration greater than 2 ng/µl.	1-24 samples: tubes or 96-well PCR plate >24 samples: 96-well PCR plate

Remarks:

• If you would like to send samples for isolation, please refer to our user guide for DNA Isolation.
• DNA samples are preferably dissolved in DNase-free water or 10 mM Tris-HCl buffer (pH 7.5 – 8.5).
• DNA samples dissolved in the above buffers can be sent at ambient temperatures.

Sample Preparation

When preparing your samples, please ensure that your samples are placed in low DNA/RNA affinity plates (PCR plates) and that they are properly sealed (heat sealed or 8-cap strips).
Use 1.5 ml tubes only for less than 24 samples. Screw-capped tubes are the most robust and secure tubes (no accidental lid opening). If you are using snap-cap tubes, we recommend that you use Safe-Lock/SafeSeal tubes (less risk of accidental lid opening).

1.5 ml

Library Preparation and Sequencing

Standard library preparation includes QC of your samples, library preparation and QC of the final library. For the Illumina DNA Tagmentation library, please provide > 75 ng DNA at a concentration of > 2 ng/µl.
Sequencing will be performed using modular Illumina sequence data packages per sample, starting with 1 Gb reads sequenced in 2×150 bp read mode.

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Sample Shipment / Order Form Completion

Prior to shipping your sequencing samples to Microsynth, please proceed as follows to complete your order form:

1. Enter our webshop at https://srvweb.microsynth.ch/
2. Click on „**Illumina Sequencing**“ and afterwards on “**miCORE Whole Genome Metagenomics**” in the green Analysis Services area
3. Fill in the order form and submit your order. Feel free to communicate any specific requirements or provide additional information using the comment field and file upload options.
4. Prepare your samples according to this User Guide or in case of isolation according to the Nucleic Acid Isolation User Guide.
5. If you would like us to perform DNA isolation in addition to NGS analysis, please select “Material for Isolation” under the “What do you provide?” section of the inquiry form.
6. Send your samples along with the order printout to Microsynth AG. When shipping isolated DNA, include “NGS” in the address. For material requiring isolation, include “Isolation” instead..

Need More Information?

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