SAMPLE SUBMISSION GUIDE
16S Microbiome profiling
Using amplicon sequencing on Illumina MiSeq

Sending samples according to the requirements below provides you best possible data quality!

General 16S sample information

This service provides DNA extraction from a variety of samples for microbiota testing using 16S rRNA Amplicon Sequencing by Illumina:

- One quality check per DNA sample
- Generation of one amplicon per DNA sample (V1-V3, V3-V4 or V3-V5)
- Pooling and sequencing of the amplicons on MiSeq with 2x300 bp paired-end read module
- Delivery of approx. 80’000 - 90’000 read clusters / sample
- Basic bioinformatic analysis (sorting of reads according to inline barcodes)
- Data delivery on storage media (raw reads and sorted reads, FASTQ-files)

Sample requirements

In order to guarantee a successful analysis, please provide the samples to be tested according to the instructions below. For questions and special samples, please do not hesitate to contact us.

DNA samples

Please provide minimum 10 µl, and 10 ng/µl DNA solved in Tris-buffer / buffer from commercial DNA extraction kits.

Please ship samples in 1.5 ml safe lock tubes at ambient temperature.

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Purified bacterial DNA</th>
<th>DNA from host and bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum amount of DNA</td>
<td>100 ng – 500 ng</td>
<td>500 ng</td>
</tr>
<tr>
<td>Concentration</td>
<td>10 - 50 ng/µl</td>
<td>50 ng/µl</td>
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</tbody>
</table>
Raw material samples

**Fermented products (cheese, yoghurt, etc.)**
Ideally, please send 5 g of sample or a whole packing in a sealed container.

**Enrichment cultures / starter cultures:**
Please send a representative sample or an overnight culture freshly frozen or cooled on ice packs.

**Water & waste water**
- Please send 500 ml water sample.
  - or
- Please send 500 ml water sample filtered through a 0.22 µm pore size filter. Filter should be filled to full capacity to harvest $10^9$ bacterial cells. Filter should be free and removed from the holder (i.e. not attached to a column), dried and wrapped in sterile aluminum foil.

**Buccal swabs**
Please send 2 swabs per sample frozen or chilled.

**Human or animal faeces**
Please send minimal 2x 200 mg of fresh or old faeces frozen.
Please ship samples in 1.5 ml safe lock tubes at ambient temperature.

Sample Submission

**General instructions**
- Please use water-resistant markers to label your sample directly on the container and avoid removable stickers.
- Identifier needs to be unique and identical to the sample description in the sample information sheets (Excel sheets).
- Please document sample label, volume/amount, condition, sample collection information and any additional information concerning your samples in the sample information sheets (Excel sheets).
- Please provide samples in sealed containers.

**Delivery of additional information**
- Please send the sample information sheets (Excel sheets) containing the sample names electronically prior to start of the project to the following Email-address: NGS_SampleReception@eurofins.com.
Delivery of sample material

- Correct sample labelling is in the responsibility of the customer
- It is mandatory that you send a copy of your order confirmation from the online shop together with your samples
- Please send your samples to:

  NGS - Laboratory
  Eurofins Genomics
  Anzinger Str. 7a
  85560 Ebersberg
  Germany

Important customs information

EU: Original samples or samples in lysis buffer may be provided by the customer.

In case the sample is sent in lysis buffer, please contact us to select an appropriate lysis buffer.

Non-EU countries: Samples need to be sent to Eurofins Genomics either as extracted DNA or in lysis buffer. Please contact us regarding your choice of lysis buffer or containers prior to sample collection.