

Customer guidelines for Next-Generation Sequencing

Sample Requirements and Guidelines

Sample Submission

Samples can be sent with a courier service or brought in person. **Please announce your sample submission in advance by phone or email.**

Submission Address:

Universitätsklinikum Tübingen
Institut für Medizinische Mikrobiologie und Hygiene
Core Facility Genomics / NCCT

2nd floor, Room 2.1.15 (office)
Elfriede-Aulhorn-Straße 6
72076 Tübingen

Tel.: 07071 29-61951

Email: ncct@med.uni-tuebingen.de

Transportation Requirements

- DNA samples for WGS sequencing must be delivered frozen (on dry ice or frozen ice packs) to ensure preservation of nucleic acid integrity
 - Samples may also be submitted in stabilizing reagents such as DNA/RNA Shield (in this case – no freezing required); the use of such substances must be indicated in the accompanying metadata sheet
 - For isolated nucleic acids, DNA should be eluted in nuclease-free water, low-TE buffer or standard elution buffer of the commercial extraction kits
 - Samples must be free of chemical contaminants (e.g., phenol, guanidinium salts), as these may interfere with downstream processing
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Amount and Quality Requirements (DNA for Bacterial Whole-Genome Sequencing)

- **Minimum volume:** > 15 µl (please do not send less than 15ul even if you have a concentrated sample)
- **Total DNA amount:** 1 µg
- **Concentration:** > 20 ng/µl (we recommend using Qubit for concentration measurements)
- **Purity Requirements** (purity should be assessed using spectrophotometric measurements, e.g. Nanodrop):
 - **260/280 ratio:** approximately 1.8 for high-quality DNA
 - **260/230 ratio:** approximately 2.0