

# BacterialSeq

## Sample Amounts and Concentrations for Tubes

| Sample      | Concentration             | Volume  |
|-------------|---------------------------|---|
| Genomic DNA | 50 ng/μl                  | > 20 μl   |
| Cell Pellet | 4 * 10 <sup>9</sup> cells | or pellet from up to 10 ml of culture, if cell counts are not available |

### Remarks:

- Suitable for bacterial genomes up to 7 Mb. For bacteria >7 Mb, please contact your sales representative.
- DNA samples are preferentially dissolved in 10 mM Tris-HCl (pH 8) with 1-2 mM EDTA.
- Measure the concentration based on fluorescence (QuBit), **not absorbance at 260 nm** (Nanodrop). Absorbance frequently overestimates the DNA concentrations. Samples with concentrations that deviate significantly from our specifications may be processed with delay. We cannot guarantee complete genome sequencing with sufficient coverage if the sample quality is low or does not meet specifications (e.g. DNA concentration, contaminants, fragmentation).
- High Quality DNA is needed for this services. That means high-molecular weight DNA with no fragments <5 kb.

### Material for Isolation

1. Grow your bacteria to mid-log or early stationary phase.
2. Collect at least 4 \* 10<sup>9</sup> cells (or up to 10 ml of culture, if cell counts are not available).
3. Pellet by centrifugation and discard supernatant.
4. Freeze the pellet at < -18°C.
5. Ship the pellets on dry ice (shipment of frozen pellets on cold packs is possible, but not recommended).

The following bacterial genera are accepted for isolation:

- |                         |                        |                       |
|-------------------------|------------------------|-----------------------|
| • <i>Acetobacterium</i> | • <i>Fusobacterium</i> | • <i>Pediococcus</i>  |
| • <i>Acinetobacter</i>  | • <i>Klebsiella</i>    | • <i>Pseudomonas</i>  |
| • <i>Bacillus</i>       | • <i>Lactobacillus</i> | • <i>Sporosarcina</i> |
| • <i>Enterococcus</i>   | • <i>Leishmania</i>    | • <i>Xanthomonas</i>  |
| • <i>Escherichia</i>    | • <i>Listeria</i>      |                       |

## Order Form Completion for Tubes

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

1. Enter our webshop on [www.microsynth.com](http://www.microsynth.com) (click on "LOGIN SHOP")
2. Click on „**ONT Sequencing**“ in the green Analysis Services area
3. Click on „**Tube**“ or „**Tube incl. Isolation**“ under **BacterialSeq**.
4. Fill in the order form (use non-prepaid cyan labels (Full PlasmidSeq)) and submit your order
5. Pack your samples into a transparent plastic bag (important: one bag per order).
6. Drop your sample package into the nearest Microsynth sample drop box (if available in your vicinity) or, for material for isolation, send the cell pellets on dry ice to Microsynth AG. See next page for further instructions.

## **Shipment of Material for Isolation**

---

Please make sure to use a box or a bag to store all your samples together and do not send them loose in your shipping box.

Frozen samples must be shipped on dry ice. The box should be temperature isolating but gas permeable. The best choice would be a Styrofoam box with about 2-3cm thick walls.

The amount of dry ice needed depends on the shipping time, surrounding temperature and shipping box.

Example: About 100g dry ice is evaporated per hour in a Styrofoam box of 33x33x33cm.

For the rough estimation of dry ice needed you can stick to the following calculation (kg per day of shipping):

1 day: 2.4kg

2days: 4.8kg

3days: 7.2kg

4days: 9.6kg

If possible, use more dry ice than needed.

Ship the samples at the beginning of the week to avoid delays over the weekend.

Shipping Address:

**Microsynth AG**

Isolation Department

Schützenstrasse 15

9436 Balgach

Switzerland

## **Need More Information?**

---

**Microsynth AG**

Schützenstrasse 15

9436 Balgach

Switzerland

Phone: +41 71 726 10 04

Email: [sanger.support@microsynth.ch](mailto:sanger.support@microsynth.ch)