Microsynth

Premium Run (Non-Prepaid Service Type)

Sample Preparation

Tubes to be used and its Labeling

When preparing your samples (or sequencing primers), please make sure that your samples are placed into 1.5 ml tubes. Screw cap tubes (see image below) are the most robust and save tubes (no accidental lid opening!). If you use snap cap tubes we recommend you to use Safe-Lock/Safe-Seal tubes (less risk of accidental lid opening). Please note that Microsynth cannot process 2 ml, 0.5 ml and 0.2 ml sample tubes. Our highly automated process of sample preparation requires the use of 1.5 ml tubes.

Simply stick your own label on your sample tubes as shown in the image. Please do not put a sticker onto the lid of your tubes and do also not wrap the tubes with parafilm!

General Information

Each DNA sample and each primer must have a minimum volume of 20 µl. DNA samples and primers for sequencing reactions are preferentially dissolved in pure water. Alternatively, 10 mM Tris-HCl (pH 8) or 10 mM Tris-HCl (pH 8) with a maximum of 0.5 mM EDTA can be used for a better long term DNA stability. **TE buffer (10 mM Tris-HCL, 1mM EDTA) might cause sequencing problems.** Your templates will be stored for 3 months whereas your specific sequencing primers will be kept at our sequencing lab for at least 4 months (or for 10 months in case you have added them to your "Custom Primer List").

The Premium Run offers a broad range of additional services to ensure successful sequencing of the most demanding samples.

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Sample Amounts per Sequencing Reaction & Concentration

DNA Template	Concentration	Effective Amount (in 20 µl)	For Each Additional Reaction
Plasmid	40-100 ng/µl[1]	800-2'000 ng	+ 5 µl
PCR[2]	30 ng per 100 bases in a volume of 20 µl		
PCR (<200bp)[2]	5.0 ng/µl	100 ng	+ 5 µl
PCR (<500bp)[2]	10 ng/µl	200 ng	+ 5 µl
PCR (<1000bp)[2]	20 ng/µl	400 ng	+ 5 µl
PCR (<5000bp)[2]	40 ng/µl	800 ng	+ 5 µl
PCR (≥5000bp)[2]	60-100 ng/µl[1]	1'200 - 2'000 ng	+ 5 µl
Primer	10 pmol/µl = 10µM	200 pmol	+ 5 µl

[1] *Optimal DNA concentration is 80 ng/µl.*

[2] *Regardless of whether the PCR is purified or non-purified*

Remark: *Direct primer synthesis at Microsynth possible*

Order Form Completion

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

1. Enter our webshop on www.microsynth.ch (click on "SHOP")
2. Click on „**Sanger Sequencing**" in the green Analysis Services area
3. Click on "**Tube**" under Premium Run
4. Fill in the order form
5. Pack your samples & the printed order form (**very important!**) into any type of transparent plastic bag (important: one bag per order)
6. Drop your sample package into the closest Microsynth sample drop box or alternatively use our prepaid envelopes for mail shipment

Need More Information?

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