

# LightRun Tube

## Sample Submission Guide for the LightRun Tube Sequencing Service

### DNA CONCENTRATION & VOLUME

Sample type	Product length	Sample conc.	Sample vol.
Plasmid DNA	–	50-100 ng/μl	5 μl
Purified PCR Products	150-300 bp	1 ng/μl	5 μl
	300-1000 bp	5 ng/μl	5 μl
	1000-3000 bp	10 ng/μl	5 μl

Quantify the DNA concentration via agarose gel or a photometer to ensure accurate results.

### OPTIMUM PRIMER CONDITIONS

- The optimum primer length is 16-25 bases
- Primer melting temperature (T<sub>m</sub>) should be 50-62 °C
- The GC content of the primer should be 35-60 %
- Ideally one G or C should be located at the 3' primer end
- The number of 3' Gs or Cs should not exceed 2 Gs or Cs
- If possible, avoid >3 identical bases in a row in the sequence
- Primers must not contain phosphorylation or fluorescent dyes

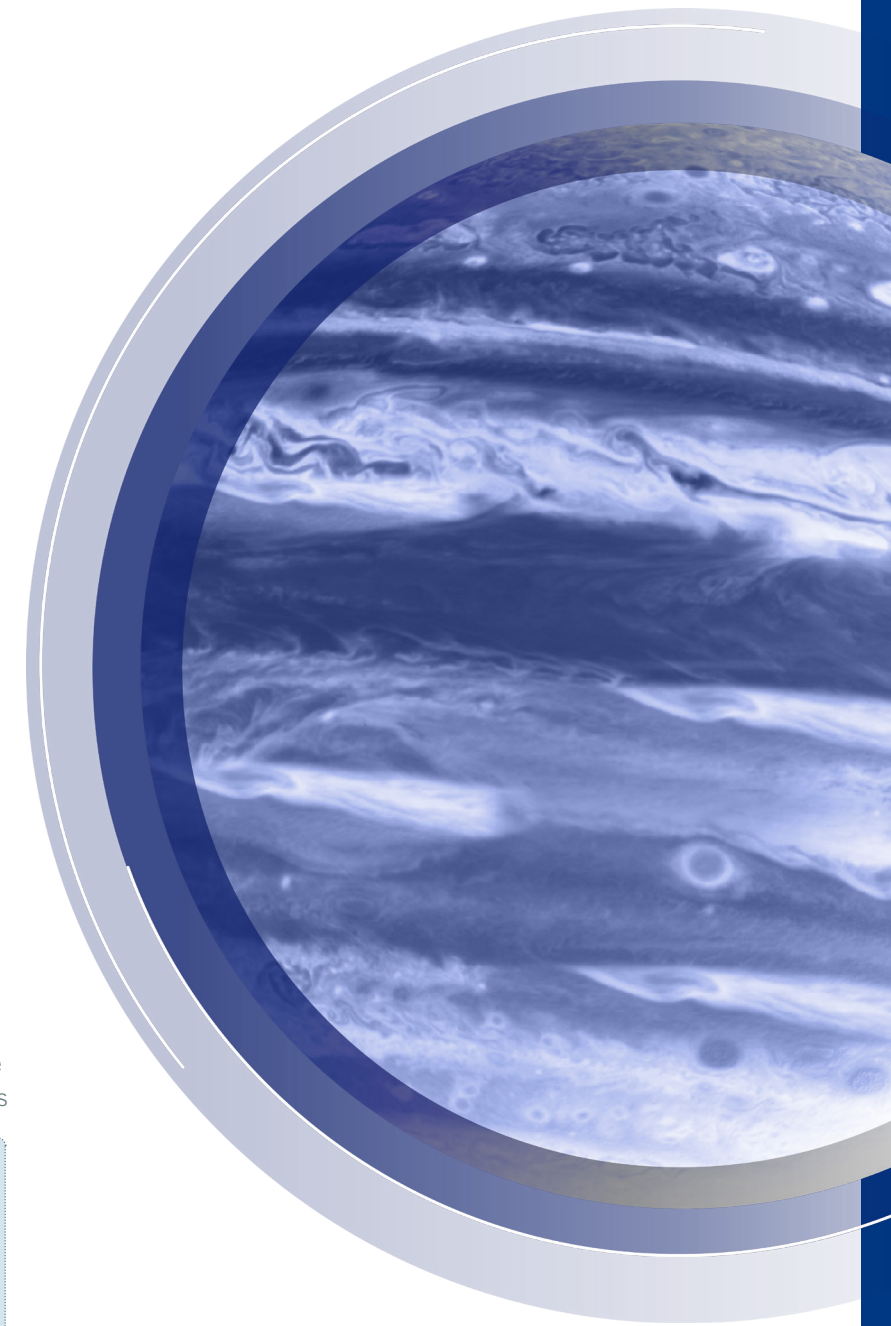
### Where to send samples

#### BY DROPBOX

There are many DropBoxes installed throughout Europe for free sample shipment.

#### BY POST:

Eurofins Genomics Sequencing Lab  
Gottfried-Hagen-Straße 20  
51105 Köln



# Sample Preparation & Submission.

1.



## 1. PREPARE SAMPLES

Premix template and primer by adding 5  $\mu$ l template (concentrations please see below) + 5  $\mu$ l primer with a concentration of 5 pmol/ $\mu$ l to your tube.

2.



## 2. LABEL TUBES

Affix the barcode in front of the tube and keep the other part for your lab record. Please don't use parafilm to seal your tubes!

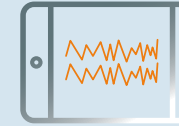
3.



## 3. SUBMIT SAMPLES

Use our tube bags or eco-friendly paper boxes for safe shipment. Drop your samples in a DropBox to benefit from free sample pick up and NightXpress service.

4.



## 4. DOWNLOAD RESULTS

You will receive an email once your data is ready to download from your Eurofins Genomics account. Data will be available the next business day after sample dropoff at a DropBox.

## Additional Service & Information

» If you need the perfect sequencing primer, [visit us here!](#)

» To find your closest DropBox, login to your account and click on ["My DropBoxes"](#).

» Do you need boxes for safe shipment of your sample tubes? [Visit us here!](#)



### USE OUR FREE SEQUENCING PRIMER DESIGN TOOL TO DESIGN THE OPTIMUM SEQUENCING PRIMERS

If you search for the perfect sequencing primer, you will love our SeqPrimer and Standard Primer. Test them with a 25,- Euro voucher (or equivalent national currency). Simply use the promotion code "OLIGOPLANET" during check-out.

