

# LightRun Plate

## Sample Submission Guide for the LightRun Plate Sequencing Service

### DNA CONCENTRATION & VOLUME

Sample type	Product length	Sample conc.	Sample vol.
Plasmid DNA	–	80-100 ng/μl	5 μl
Purified PCR Products	150-300 bp 300-1000 bp 1000-3000 bp	2 ng/μl 12 ng/μl 25 ng/μl	5 μl 5 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 ( $T_m$ ) 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

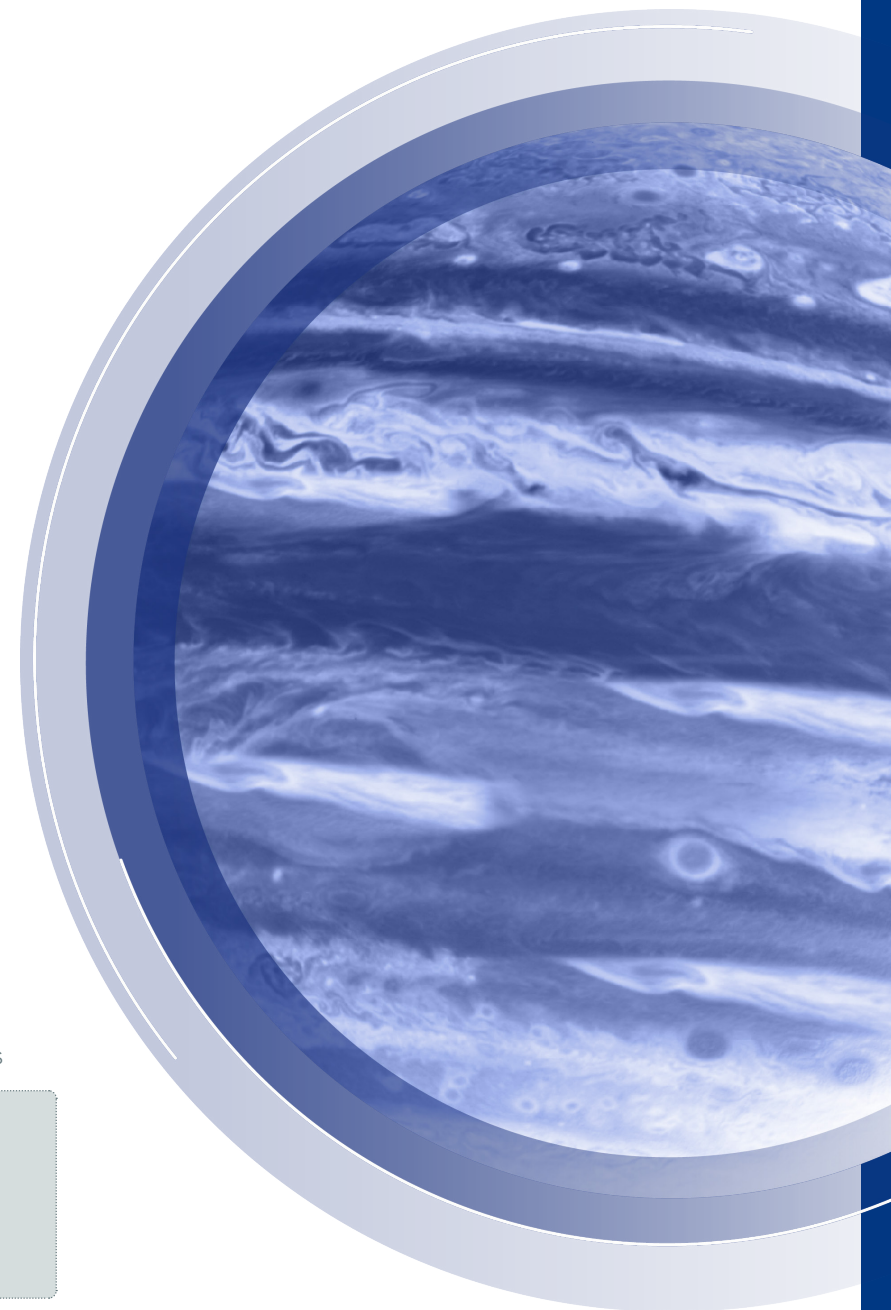
### Where to send samples

#### BY DROPBOX

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

#### BY POST:

Eurofins Genomics Sequencing GmbH  
Gottfried-Hagen-Straße 20  
51105 Köln, Germany



# Sample Preparation & Submission.



## 1. PREPARE SAMPLES

Take 5 µl purified template DNA with either of the concentrations given in the adjacent table.

Add 5 µl primer with a concentration of 5 pmol/µl. Ensure that the total volume of your premixed sample is 10 µl.

## 2. LABEL PLATES

Use our „LightRun 96 Barcodes“ to label your 96-well PCR plate with V-shaped wells, and our „LightRun 384 Barcodes“ to label your 384-well plate.

Ensure that you have ordered the correct barcodes. An overview is available [here](#).

## 3. SUBMIT SAMPLES

Seal your 96well plates using 8-cap strips to prevent material loss.

Use our adhesive plate foil to seal your 384 well plate.

Drop your samples in a Drop-Box to benefit from free sample pick up or ship samples at ambient temperature directly to our sequencing lab.

## 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 receipt.

## 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 plates? [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.

