# PLASMID DNA PURIFICATION
# DNA OR RNA PURIFICATION FROM CELLS, TISSUES, BLOOD, SALIVA, FFPE SAMPLES...

Genomic Core Facility uses QIAcube® technology to process Qiagen® spin columns for fully automated RNA or DNA purification from different sources. Up to 12 samples can be processed per run. Innovative QIAcube® components include a centrifuge, heated shaker, pipetting system, and robotic gripper.

Up to now we have used Qiacube® to process: human blood, mouse and rat chocleas, mouse and human brain biopsies, human saliva, mouse pancreas, mouse tails or stools, cultured cell lines, FFPE samples (mouse tissues: kidney, testis, skin, brain, pancreas, heart, prostate, liver, lung, spleen…). This has enabled us to fully automate more than 20 Qiagen® different protocols.

The QIAcube® together with the QIAprep Spin Miniprep Kit enables fully automated purification of plasmid DNA. Purified DNA is suitable for use in routine molecular biology applications, such as fluorescent Sanger sequencing, cloning, or cells transfection. Minipreps will be done on Tuesdays so please provide cultures on Mondays.

RNA or DNA obtained is either spectrophometricallly (Nanodrop) or fluorimetrically (Qubit®) quantified.

**Sample requirements**:

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|---|---|
| For plasmid DNA: | 1ml of inoculate. Please provide: vector name, insert size, selection media… |
| For cell lines DNA: | please provide 3-5 $10^6$ suspension cells or adherent cells from a confluent P60 in 200 µl of PBS in 2.0 ml tubes. |
| For blood DNA: | 200 or 400 µl of blood in 2.0 ml tubes. |
| For blood RNA: | 600 µl of lysed leukocytes |
| For brain/adipose tissue RNA: | < 100 mg of starting tissue |
| Other tissues RNA: | < 30 mg of starting tissue |
| FFPE RNA: | 1-2 or 3-4 10 µM sections |

Order number for IIBm users is compulsory. Order number can be purchased through the Lab Store Department web page (look for Genomics Services). For further information please contact: genomica@iib.uam.es

You will receive an email when your results are available so you can come and pick up your samples. Attach to the email you will find information concerning: purification method used, sample volume, sample concentration, RNA quality (if required)…