NUCLEIC ACIDS QUANTITATION

UV-Vis spectrometry allows us to confirm DNA or RNA quantity and quality for further analysis as Real Time qPCR, SNPs detection or DNA Sanger sequencing.

Nanodrop ND1000 and ND8000 (8 samples at one time) allow UV-Vis measurements to be made from 1-1.5 µl of sample with no cuvettes or dilutions. Using fiber optic technology and surface tension the sample is held in place between two optical surfaces that define the path length in a vertical orientation. Absorbance measurements are then faster and easier.

DNA dynamic range: 2-3700 ng/µl. RNA dynamic range: 2-3000 ng/µl.

The Qubit® 2.0 Fluorometer is designed to work with highly specific and sensitive Qubit® DNA, RNA, and protein quantitation assays. Specifically designed fluorometric technology uses Molecular Probe® dyes to quantitate biomolecules of interest. These fluorescent dyes emit signals ONLY when bound to specific target molecules, even at low concentrations.

Qubit® 2.0 Fluorometer dynamic range for different RNA and DNA assays:

Kit	Rango
dsDNA HS assay	20 pg/µl – 100 ng/µl
dsDNA BR assay	100 pg/µl – 1000 ng/µl
dsRNA HS assay	250 pg/µl – 100 ng/µl
dsRNA BR assay	1 ng/µl – 1000 ng/µl

Sample requirements:

Users should bring 3 µl of RNA or DNA (10 -2000 ng/µl) in 1.5 ml tubes

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

After your samples have been quantified you will receive an email with the results: sample concentration, 260/280 and 260/230 ratios…