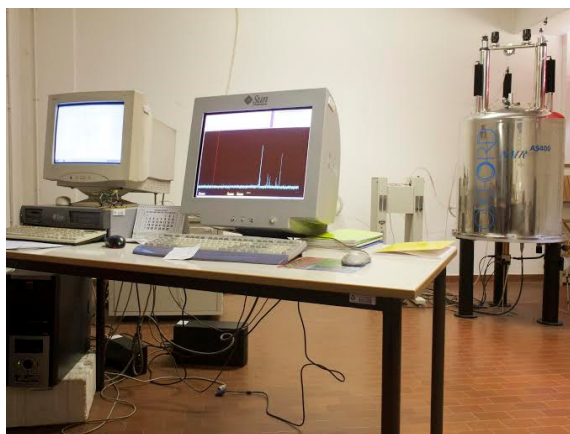


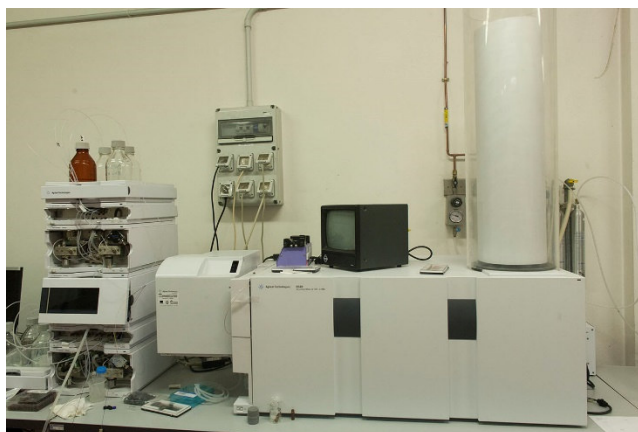
1. NMR SPECTROMETER (Varian)

Nuclear magnetic resonance (NMR) spectrometer for the identification of chemical species through acquisition of proton, carbon, heteronuclear (Fluorine 19, phosphorous 31) spectra, as well as a series of homo- and heterocorrelated spectra.



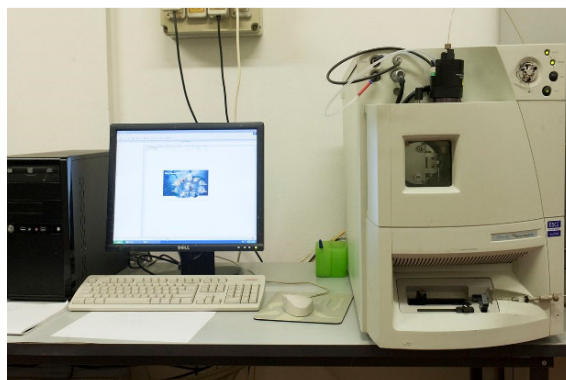
2. HPLC-MS/MS (Agilent)

High-performance liquid chromatography and tandem mass spectrometry (HPLC-MS/MS) apparatus using a chip cube nano-flow system to determine the exact mass of complex samples, including those of biological origin (blood, plasma, cell extracts).



3. MASS SPECTROMETER (Micromass)

Electrospray ionization (ESI) single quadrupole mass spectrometer for determination of molecular masses up to 2000Da.



4. FT-IR SPECTROMETER (Perkin Elmer)

FT-IR spectrometer equipped with zinc selenide focusing element and He/Ne laser source.



5. CONTINUOUS-FLOW HYDROGENATOR (ThalesNano)

Heterogeneous catalytic hydrogenation system under continuous flow conditions using two electrolysis cells to produce hydrogen.



6. ATOMIC ABSORPTION SPECTROMETER (Perkin Elmer)

Atomic adsorption spectrometer equipped with a single-element hollow cathode lamp, deuterium lamp background correction, graphite furnace, microwave-assisted mineralization system, and fume extraction modules.

