



M O C A : Mineral and Organic Chemical Analysis

WHAT WE OFFER : services and expertise

- Characterisation / test / analyses performed by highly qualified UCLouvain members
- Analysis of organic and inorganic molecules from complex matrices
- Expertise in sample preparation and development of new protocols



Analysis of complex matrices

- Soil
- Water
- Plants
- Food
- Waste
- Biotechnology



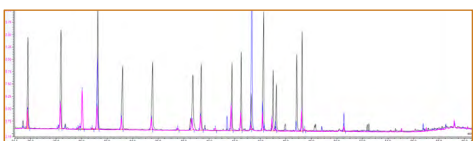
Pre-treatment

- Acid mineralization / alkaline fusion
- Soxhlet
- Enzymes
- Grinding / sieving
- Solid phase and liquid-liquid extraction



Cations analysis

- Inductively Coupled Plasma
 - Atomic Emission Spectroscopy (ICP-AES)
 - Mass Spectrometry (ICP-MS)
 - Multi Collector-ICP-MS for isotopic ratios
- X-Ray Fluorescence (XRF)



Organic analysis by gas/liquid chromatography

- Liquid chromatography (HPLC) + coupled with MS (UPLC-MS)
- Ionic chromatography
- Gas Chromatography (GC) + coupled with MS (GC-MS)



C/N Analysis

- Total Organic Carbon (TOC) to liquid phase
- Elementar analysis (C, N, S)

CONTACT

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<https://uclouvain.be/en/research-institutes/eli/moca>

(1) Analysis of complex matrices – (2) Pre-treatment: alkaline fusion – (3) Cations analysis – (4) Organic analysis by gas/liquid chromatography – (5) MC ICP MS