



Tabela de Preços / Price Table (Válida a partir de:/Valid after: 1/Maio/2022

Análises - Técnicas / Analyses - Techniques	Preço / € Price	Observações Comments
Identificação e/ou quantificação de compostos Identification and/or quantification of compounds		
Gas Chromatography (GC)	55-110	1 sample
Mass Spectrometry / Gas Chromatography (GC/MS)	55-110	Prices for qualitative analysis. Sample preparation, development of methods and
High Performance Liquid Chromatography (HPLC)	45-90	quantification require quotation.
Fourier-Transform Infrared Spectroscopy (FTIR) MID-IR e NIR-IR regions Recorded in transmittance or reflectance (ATR/NIRA)	3 10 with report	1 sample/ each 16 scans Considered unit: a spectrum collected with 4.0 cm ⁻¹ spectral resolution and 16 scans. For a spectrum of the sample in KBr pellets, the price plus 2€ per sample. This value includes a replicate.
Ultraviolet-Visible Spectrophotometry (UV-Vis)	3	1 sample Spectrum collected between 200-800 nm Sample preparation and quantification (calibrations) require quotation.
Microplate Reader System for 6- to 384-well microplates Performance for UV-Vis absorbance, fluorescence and luminescence	*	Requires quotation
Elemental Analysis (EA) CNHS or O analysis	45	1 sample with 2 replicates
Karl Fischer	50	1 sample with 2 replicates
Identificação e quantificação de iões Identification and quantification of ions		
Flame/Graphite Atomic Absorption Spectroscopy (metallic ions) (AA)	30	1 sample/ ion The result is given with 8 readings (values).
Ionic Chromatography (anions and cations)	45-90	1 sample with 2 replicates Sample preparation and development of methods require quotation.
Análise ambiental Environmental analysis		
Total Organic Carbon (TOC)	*	Requires quotation
Chemical Oxygen Demand (CQO)	*	Requires quotation
Method Kjedhal Method for the quantitative determination of nitrogen	*	Requires quotation
Tamanho da partícula Particle Size		
Laser Diffraction Spectroscopy (LDS) Mastersizer (0.5 - 5000 µm)	50	1 sample with 2 replicates
Dynamic Light Scattering (DLS) ZetaSizer Nano ZS (3 - 3000 nm)	50	1 sample with 2 replicates
Zeta Potential - ZetaSizer Nano ZS	50	1 sample with 2 replicates





Reologia e Viscosidade			
Rheology and Viscosity			
Rotational Viscometers (Brookfield)	55	1 sample with 2 replicates	
capillary viscometer	55	1 sample with 2 replicates	
Rotational Rheometer (Haake RS1)	55	1 sample with 2 replicates	
Refractometer	30	1 sample with 2 replicates	
Análise térmica Thermal Analysis			
Modular Differential Scanning Calorimetry (MDSC)	30 / 35 ambient / cryogenic temperatures	1 sample / each 60 min Sample preparation and development of methods require quotation.	
Specific Heat Capacity Measurements Using MDSC	40	1 sample with 1 replicate	
Thermogravimetric Analysis (TGA)	35	1 sample / each 60 min Sample preparation and development of methods require quotation.	
Simultaneous Differential Thermal Analysis (SDT)	35	1 sample / each 60 min Sample preparation and development of methods require quotation.	
Thermal constants analyzer	40	1 sample	
Propriedades de superfície Surface Properties			
Inverse Gas Chromatography	*	Requires quotation	
Surface Tension Balance for surface tension determination	55 / 70	1 sample: - with replicates at one temperature =55€ - in a temperature range (4 temperatures) =70€	
Contact Angle Determination	3	each 60 min	
Mechanical tests	40	each 60 min	
Coater laboratorial	*	Requires quotation	
Outras Others			
Vibrating Tube Densimeter	55 / 70	1 sample - with replicates at one temperature =55€ - in a temperature range (4 temperatures) =70€ - at one temperature with pressure variation =70€ The prices include the preparation of the densimeter for measurements.	
Electrospinning	*	Requires quotation	
Homogeneizador (HPH)	20	each 60 min	
Liofilizador	1	each 60 min/ freezing each 60 min/ freeze dryer	
Micro-Ondas	2	each 60 min	

f * Please requires quotation to:

CERES
Departamento de Engenharia Química - FCTUC
Rua Sílvio Lima, Polo II
3030-790 Coimbra – Portugal
Tel. +351 239 798 790
E-mail: ceres@eq.uc.pt





NOTES:

- Prices do not include VAT (at the legally-established rate).
- Depending on the properties of the products to be analysed, the indicated prices can be further adjusted.
- Replicates performed on each technique are indicated in the table, each additional replica is counted as one sample.
- Indicated prices are for Customers external to UC / DEQ / CERES.
 - a) CERES members are imputed 25% of the total costs of analyses. Other discounts may be applicable;
 - b) DEQ members are imputed 70% of the total costs of analyses. Other discounts may be applicable;
 - c) UC members are imputed 80% of the total costs of analyses. Other discounts may be applicable.
- For analyses requested under specific provision of services protocols and for larger number of analyses, quantity discounts may be made (require quotation).