

POP-UP

Peptide synthesis facility at the Faculty of Sciences of the University of Porto

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The peptide synthesis facility of the Faculty of Sciences of the University of Porto (termed “the facility” from now on) has as major mission to provide the scientific and technological communities, from either academic or industrial settings, in particular those from Northern Portugal, top quality services in peptide synthesis, purification and analysis, as well as consulting in peptide science. To this end, the facility is equipped with state-of-the-art instrumentation and benefits from the long-term experience and expert skills of the senior staff.

A. GENERAL RULES

1. Access to this facility will be allowed for the following users:
 - Researchers timely registered as service users, implying the previous filling and delivery of an User Application Form, signed by both the user, his/her supervisor (when applicable) and the head of the Research Unit/Institution which the user belongs to;
 - Companies and other organisms, through delivery of a Service Order Form, conveniently filled with all informations relevant for the service requested.
2. Requests on new types of services, different from routine ones, must be preceded by a meeting for detailed analysis and discussion of the request, in order to define suitable procedures and protocols, and estimate the corresponding quotation and delivery deadline.
3. All data and results stemming from work undertaken within scope of facility services, are property of the users and corresponding Institutions. Any liability of the facility regarding preservation of generated data ceases upon data transfer to the user, regardless of any procedures undertaken by the facility for temporary archiving of results.
4. All services will give place to elaboration of a Technical Report, agreeing with terms specified in the Service Order Form, to be delivered to the user, for acceptance. Any liability of the facility ceases upon acceptance of the Technical Report by the user.
5. The facility guarantees scientific and technical support to users, regarding basic interpretation of generated results and data transfer.

B. SPECIFIC RULES

1. Equipment available for services at the facility is as follows:
 - 24-channel *Symphony X* synthesizer, equipped with infra-red heating, from *Protein Technologies* (<http://www.ptipep.com/products~instruments-5~symphony-x-343>);
 - Single-channel microwave-assisted synthesizer *Liberty1* from *CEM* (<http://www.cem.com/content-cat686.html>);
 - Freeze-drier *Benchtop Pro* with *Omnitronics 9L* da *VirTis* (http://www.spscientific.com/VirTis_BTP_-_BenchTop_Pro_Freeze_Dryers/);
 - Preparative-scale high-performance liquid chromatography (HPLC) system *Merck-Hitachi LaPrep Σ* (<http://pt.scribd.com/doc/170345419/LaPrep-Sigma#scribd>);
 - Analytical-scale high-performance liquid chromatography system with diode-array detection (HPLC-DAD), *Merck-Hitachi LaChrom Elite* (<https://hitachi-hita.com/sites/default/files/literature/LaChrom%20Elite%20Brochure.pdf>).
2. Analysis of peptides produced through services of the facility will include mass-spectrometry analysis, in coordination with the Laboratory for Mass Spectrometry at the University of Porto's Centre for Materials, LEM@CEMUP (http://www.cemup.up.pt/webcemup/LAE/LAE_lab/LAE_lem.htm); users may choose one of the following mass spec techniques (cost included in all quotations, see A.2.):
 - High-resolution electrospray-ionization/ion trap mass spectrometer (HRMS) coupled to high-efficiency liquid chromatography (LC/MS/DAD) *LTQ Orbitrap XL* from *Thermo Scientific* (<http://www.thermoscientific.com/en/product/ltq-orbitrap-xl-hybrid-ion-trap-orbitrap-mass-spectrometer.html>);
 - Matrix-assisted laser desorption ionization/tandem time-of-flight mass spectrometer (MALDI TOF/TOF) *Daltonics UltrafleXtreme* from *Bruker* (<https://www.bruker.com/products/mass-spectrometry-and-separations/maldi-toftof/new-ultraflextreme/overview.html>).
3. The cost of services from the peptide synthesis facility, alone or in collaboration with other facilities (e.g., structural analysis) is supplied as a Service Quote upon request by the potential user, and different discounts may apply depending on user type:
 - C1 – researchers from institutions within the frame of Universidade do Porto;
 - C2 – researchers from other Portuguese public Academic institutions (Universities, Research Institutes), and personnel from Companies and Interface entities having cooperation protocols with Universidade do Porto;
 - C3 – private companies and other public or private Portuguese entities.
4. Ordered peptides will be supplied as lyophilized powders, in the form of trifluoroacetate salts, and delivered together with a Technical Report and the respective HPLC chromatograms and mass spectra, according to the defined in the Service Order Form.
5. The facility guarantees the pricing and delivery deadlines set and accepted by the user, according to the terms of the Service Order Form (see A.2.); by giving-up an ordered service, the user will not be waived from the respective payment. In case the facility does not

comply with the pre-established delivery deadline, by unexpected reasons not attributable to any kind of misconduct from the facility's staff, the following discounts over the original discountquote will be applied:

- up to one week delay – 20%;
- one to two weeks delay – 40%;
- two to three weeks delay – 60%;
- three to four weeks delay – 80%;
- over four weeks delay – cancelled without any costs for users.