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DEMAX: The Deuteration and Macromolecular Crystallization support lab at the European Spallation Source

DEMAX is the ESS Deuteration and Macromolecular Crystallography support lab for chemistry, soft matter, and life science users of the European Spallation Source (ESS). DEMAX support will be available to all users of ESS instruments and includes chemical deuteration, biological deuteration, and large protein crystal growth. DEMAX has been operational since 2019 and is currently operating on a rolling access basis to serve the broader neutron scattering community conducting experiments at other facilities.

The deuterated molecules most often requested from us include proteins, lipids, fatty acids, small organic molecules and surfactants, but also a range of other compounds. We also offer deuterated biomass/lipid and other extracts from a number of microorganisms, and support for large protein crystal growth. DEMAX is a founding member of the international deuteration network DEUNET[1]. In this poster we present our main capabilities and recent examples.

Access to DEMAX support is through the ESS User office system [2] via a peer-reviewed, proposal-based system and is currently free of charge to user upon acceptance. For more details or information, contact us at demax@ess.eu.

1. <http://deuteration.org/demax>
2. <http://useroffice.ess.eu>

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Instrumentation and methods

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