

Sample Submission for ESI-HRMS Accurate Mass Measurement



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- Submit samples in eppendorfs or vials, 1-2 mL volume. If sending samples by post, please send in a screw-top container.
- Between 0.5 and 1 mg of sample is sufficient for analysis. Please provide accurate information on the amount of sample submitted.
- Samples should preferably be submitted as high purity solids. It is recommended to purify your compounds as much as possible prior to submission, as any readily ionisable impurity may suppress the ionization of your compound of interest – and is the main factor in a poor MS result.
- If it is necessary to submit samples in solution – then submit at least 50 μ L at a concentration of about 1mg/mL in HPLC grade Methanol, Acetonitrile or Water. 5% DMSO can be added to aid dissolution. Accurate details of the amount and concentration of sample must be provided at the time of sample submission.
- Samples should be free from non-volatile components. These includes:
 - Non-volatile buffers (including phosphate, Tris and HEPES)
 - Excess salt levels (including Na^+ , K^+ , Ca^{2+} and Cl^-)
 - Detergents
- In order to promote sample ionization, low levels (0.1 – 1%) of acid or base may be added to your sample by the analyst. If you suspect that your sample may be unstable under these conditions please inform the service at the time of sample submission.
- Please identify any known hazards or toxicities associated with your sample.
- Samples will be stored at room temperature unless otherwise specified.

It is a service requirement that a low resolution ESI mass spectrum of your sample accompany your request for accurate mass measurement.