

BIDMC Mass Spectrometry Core Facility

Beth Israel Deaconess Medical Center
Center for Life Science
3 Blackfan Circle, Room 425
Boston, MA 02115
Ph: 617-735-2651 Fx: 617-735-2655

Sample Preparation Guidelines

- Please do not send samples without first discussing the project with John Asara, jasara@bidmc.harvard.edu
- *No radioactive* samples will be accepted
- For gel samples, coomassie stain is preferred rather than silver. Coomassie level staining is necessary for post-translationally modified proteins. If silver must be used, be sure not to fix the gel with gluteraldehyde or formaldehyde
- Excise bands tightly around band, no excess unstained or partially stained gel
- The submission tube(s) should be a plain clear 1.5 mL eppendorf tube
- Wash the gel slices in the tube 2 times with 50% acetonitrile in high purity water and remove liquid before submitting samples
- Keratin contamination is almost always observed as a background protein as well as other proteins such as caseins from dry milk and BSA that may be present in your lab. **Wear only nitrile gloves and rinse all surfaces that contact the gel with plenty of high purity water including gloves, staining trays, scalpels, razor blades, and the 1.5mL tubes.**
- Also excise a blank (unstained) area from the same gel that represents your background as a control
- For post-translational modification mapping samples, the stain must be coomassie blue and you must *email your sequence to* jasara@bidmc.harvard.edu prior to submission
- For solution samples, please attempt to find elution conditions that minimize antibody proteins from IPs. Note that solution samples containing non-ionic detergents or high alkali salt will *not* be accepted. Also, limit volume to ~75 μ L or less
- Be sure to fill out forms completely, 1 form per sample including the blank piece of gel for a background control (not charged), and send forms with samples
- Please ship samples on dry ice via overnight delivery to address above or drop them off to either Min Yuan or Susanne Breitkopf in CLS-425 (posted sample drop-off area)
- *Do not send samples until an account with the core has been set up with John Asara, jasara@bidmc.harvard.edu
- More info and forms to download can be found at www.bidmcmassspec.org

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Mass Spectrometry Sample Submission Form

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Sample Name: _____ Date Submitted: _____

User Name: _____ Lab/Office Phone: _____

E-mail: _____ Fax: _____

Principal Investigator: _____

Institution: _____

Address: _____

BIDMC Grant #: _____

Non-BIDMC P.O. Number: _____

Billing Contact person/phone/email: _____

Molecular Weight: _____ kD

Estimated Amount: _____ μ g/pmol

Volume: _____ μ L Buffer: _____

Organism: _____

Gel*: _____ Solution: _____

*If gel, indicate the stain used: _____ CBB _____ Silver _____ Other

***Project Title:** _____

What is the purpose of the analysis?:

Any special instructions?:

Facility use only:

Gel size: _____ stain intensity: _____