

## 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

### Protein Sample Preparation Guidelines

- Please do not send samples without first discussing the project with John Asara, [jasara@bidmc.harvard.edu](mailto: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 1.5mL 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 and you must *email your sequence to* [jasara@bidmc.harvard.edu](mailto:jasara@bidmc.harvard.edu) prior to submission
- For solution samples, please attempt to find elution conditions that minimize bait and antibody proteins from IPs. Note that solution samples containing non-ionic detergents or high alkali salt will not be accepted.
- 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 or drop them off 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](mailto:jasara@bidmc.harvard.edu)

# 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: \_\_\_\_\_

Molecular Weight: \_\_\_\_\_ kD

Estimated Amount: \_\_\_\_\_ µg/pmol

Volume: \_\_\_\_\_ µL 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: \_\_\_\_\_