

**Arkansas Statewide Mass Spectrometry Facility
Routine Analysis Request Form**

Sample submitter:

Date submitted:

Cost center or P.O. number:

Phone / FAX and Email:

Affiliation/Professor:

Routine analyses include qualitative characterization of elemental composition, molecular weight, or identity at non-trace levels for primary components in samples by direct analysis or after chromatographic separation.

Sample Submission: Proteins or gel spots can be submitted in eppendorf tubes, head space samples in an appropriately sized head space vial, and other samples in a GC auto-sampler vial with a septum top. All should be packaged inside a clean secondary container. The concentration should generally be between 0.1 and 0.01 mg/ml or the weight of a solid should be about 0.25 mg. Smaller amounts of proteins can often be detected.

Sample Certification: The submitter and professor certify by submission of the sample and by the signature below that the following are all true: (1) the submitted material is not carcinogenic, acutely toxic or a member of such a hazardous compound class (ie. Nitrosamine or prion) as determined by any of the following: OSHA, WHO/IARC or Patty's Industrial Hygiene (Chemistry has a copy). (2) The sample is not radioactive. (3) The sample is not an illegal substance. (4) The requested analysis does not violate the US Export Control Laws including analyses for prohibited foreign nationals. (5) The account number is valid and applicable for the proposed analysis.

_____ (Professor or Corporate Submitter's signature for sample certification)

Analysis Requested (Circle One):

For Water Soluble and Polar Compounds:

1. ESI Flow Injection or LC/MS (\$40) (We will use a generic RP column/gradient absent other arrangements).
2. MALDI MS or MALDI MS/MS (\$40) (We will provide MS/MS for a parent ion specified in the request.)
3. ESI FIA Exact Mass (q/TOF) (\$40).
4. ESI or MALDI FTMS (\$50).

For Organic Soluble Less Polar Compounds:

5. GC/MS (\$40): (We will use a standard generic GC column and temperature program).

Other

6. In Gel Peptide Mass Fingerprint (\$110).

Sample Information: (attach pages as needed)

Name (ID) on the sample vial:

Name of the expected/desired compound(s) or starting materials:

Expected MW, elemental composition/structure or amino acid sequence:

Sample weight, solvents or solvent concentration:

Buffers, contaminants and rough estimate of purity if known:

Best solvents for the compound:

Below or on a separate page please describe what you are trying to accomplish with the analysis as well as a sample history. For example if this is a synthesis product, knowledge of the starting materials will be helpful if they are detected rather than the desired product.

For unknowns please specify the mass range of interest.

Results will be provided by email and/or PDF attachment using the Email address provided above. While we are supported by NIH all sample submitter's must agree to the following conditions:

They will:

1) Acknowledge COBRE support and the Support of the Arkansas Statewide MS facility in all publications and presentations involving our work. **Be sure to use the current COBRE Grant Number: NIH P30 GM103450.** The wording NIH asks us to use is: "This publication was supported by Grant Number P30 GM103450 from the National Institute of General Medical Sciences of the National Institutes of Health (NIH)."

2) Make sure that all of the publications are listed on Pub Med Central at the time of acceptance. The way this is done depends on the journal. Some journals will do this for you, while for others you will need to send the accepted manuscript to Pub Med Central yourself. The website listed below tells you how to do this:

<http://publicaccess.nih.gov/index.htm>

Our funding from NIH requires that our users agree to these conditions. If you cannot agree to these conditions please do not submit samples to us.