

Mass Spectrometry Core Lab  
 Biomolecular Mass Spectrometry  
 Department of Pharmacology & Toxicology  
 Director – Dr. William M. Pierce, Jr., Ph.D. ([pierce@louisville.edu](mailto:pierce@louisville.edu))  
 Laboratory – Room 1420 Building M55A, Health Sciences Center  
 Jian Cai, Ph.D. or Ned Smith Tel 852-5161 Fax 852-7868

Analysis Request / Data Sheet (Print this form and submit with each sample or batch of samples)

PLEASE FILL OUT ALL FIELDS MARKED BY **\*asterisk\***

**\*Name (Submitting Investigator)** \_\_\_\_\_

Principal Investigator \_\_\_\_\_

Department \_\_\_\_\_ Experiment/Project \_\_\_\_\_

**\*Phone** \_\_\_\_\_ **FAX:** \_\_\_\_\_ **email:** \_\_\_\_\_

**\*Account to be billed** \_\_\_\_\_ **Center/institute to be billed** \_\_\_\_\_

Sample Description

**\*ID / Label Description** \_\_\_\_\_

Date Received \_\_\_\_\_ Date promised \_\_\_\_\_ or ASARP

Solvent / Salts/ Buffer / Surfactant: \_\_\_\_\_ or Solubility in (solvent) \_\_\_\_\_

Quantity: Mass \_\_\_\_\_ Volume \_\_\_\_\_ Conc. \_\_\_\_\_

**\*Species** \_\_\_\_\_ Tissue / cell type (biologicals) \_\_\_\_\_ Purity (synthetics) \_\_\_\_\_%

Return sample? Yes No (sample will NOT be returned if unspecified)

Sample form: Solid \_\_\_\_\_ Solution \_\_\_\_\_ Digest \_\_\_\_\_ Gel Band/Spot \_\_\_\_\_ Stain \_\_\_\_\_

**\*Does this sample contain any radioactive isotopes?** Yes No Initial \_\_\_\_\_

(If yes – provide isotope identity, activity, chemical form, sample history – discuss with lab personnel before submission)

PROPOSED STRUCTURE / Formula (if known)

-or append AA sequence / provide ID/name for web search

PURPOSE of EXPERIMENT

Purity, molecular weight, structure, quantitative, other

DATA: send raw data to : \_\_\_\_\_ efile CD/DVD JAZ ZIP

send summarized data analysis to: \_\_\_\_\_

send formal written report to : \_\_\_\_\_

Notes:

***Please complete this page and submit with each sample or group of samples.  
 Items marked with \* must be completed.***

## Narrative Description of the Goals of the Experiment and of This Analysis:

**This section for laboratory use only**

<p><b>PREP REQUIRED</b></p> <p>Reduce and alkylate _____</p> <p>Digest _____</p> <p>Zip IMAC Spot</p> <p>Thin film</p> <p>Other _____</p>	<p><b>SAMPLE INTRODUCTION:</b></p> <p>Microflow flow injection</p> <p>nanoflow nanospray</p> <p>HPLC MALDI</p>	<p><b>HPLC Separation</b></p> <p>Solvents</p> <p>A: _____</p> <p>B: _____</p> <p>Column: _____</p> <p>Flow/Gradient; _____</p> <p>Chromatogram enclosed? _____</p> <p>Literature reference?</p>
<p><b>Ionization Mode:</b></p> <p>ESI pos ESI neg</p> <p>APCl pos APCl neg</p> <p>MALDI <del>a-CHCA</del> <del>DHB</del></p> <p>best</p> <p><b>Polarity:</b></p> <p>Positive</p> <p>Negative</p> <p>+/-</p>	<p><b>NOTES:</b></p>	<p><b>Scanning &amp; Acquisition</b></p> <p>MS single Q m/z range _____</p> <p>QTOF m/z range _____</p> <p>Linear Trap m/z range _____</p> <p>Orbitrap m/z range _____</p> <p>TOF linear m/z range _____</p> <p>TOF reflectron m/z range _____</p> <p>PSD</p> <p>CID</p> <p>Best</p> <p>MS-MS daughters of _____</p> <p>MS-MS parents of _____</p> <p>MS-MS neutral loss _____</p>