

## Physical/Chemical Analysis Submittal Form

Submitted By: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_  
P.O.#: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

All samples will be returned to the submitter

following completion of the analysis.  Fax Results  E-mail Results

**PRIORITY SERVICE:** For "Rush" service, please contact us for a PRIORITY Service Number before submitting samples.

**PRIORITY SERVICE NUMBER:** \_\_\_\_\_

Sample ID (for multiple samples attach listing of ID's):

Expected Composition/Structure:

### FDA cGMP Compliance Needed\* Yes No

Specification Provided:  No  Yes : \_\_\_\_\_

### FDA GLP Compliance Needed (Characterization Studies) Yes No

Client Method for Analysis: \_\_\_\_\_

### Controlled Substance Yes No

If Yes: DEA Registration # (Required) : \_\_\_\_\_  
Please attach copy of current license.

DEA Schedule - Check One:  I  II  III  IV  V -- DEA 222 Form required for Schedule I and II items.

Safety Hazards:  Volatile  Flammable  Explosive  Toxic  Other  
Sample Storage:  Desiccator storage (Hygroscopic samples)  Refrigerator (~-4°C)  Freezer (~-20°C)  Other  
Special Handling:  Oxygen sensitive handling (under N<sub>2</sub> in Dry Box)  Other \_\_\_\_\_  
 Dry sample for \_\_\_\_\_ Hrs at  RT /  60°C /  \_\_\_\_\_ /  Vacuum

### Quantitative Elemental Analysis

### X-ray Powder Diffraction (XRD)

Single  Duplicate

5-10mg required for CHN; 10-20mg for other elements

Element(s): Expected value:  
 CHN \_\_\_\_\_ %C \_\_\_\_\_ %H \_\_\_\_\_ %N  
 S \_\_\_\_\_ %S (please indicate if sample  
contains F, Hg, or deuterium)  
 Cl \_\_\_\_\_ %Cl  
 F \_\_\_\_\_ %F Combustion Aid  : \_\_\_\_\_

#### Sample Prep.

Front Pack (0.5g)  Zero Background (50mg minimum)

#### System Parameters:

4-40, 2-theta - organics  
 2-80, 2-theta - inorganics  
 Client-specified Conditions: \_\_\_\_\_

### Water Analysis By Karl Fischer

### Mass Spectrometry

Single  Duplicate

10-100mg (minimum)

Method(s) Expected value:  
 Coulometric \_\_\_\_\_ %  
 Volumetric \_\_\_\_\_ %  
 Vaporizer Oven \_\_\_\_\_ %  
Sample melting point required: \_\_\_\_\_

(Structural and Molecular Weight Confirmation)  
(by GC/MS and LC/MS)

DEP/MS/CI (mol. weight confirmation)  ES/MS (mol. weight confirmation)  
 DEP/MS/EI (structural confirmation)  ES/MS/MS (structural confirmation)

Expected Molecular Weight: \_\_\_\_\_

Soluble in: \_\_\_\_\_

### Other Quantitative Analysis

### Other Qualitative Analysis

Single  Duplicate

Heavy Metals (USP) - see USP for sample requirements  
 Residue on Ignition (USP) (~1g sample required)  
 Loss on Drying (~1g sample required)  
 Melting Point (~25mg sample required)  
 Graphite Furnance Atomic Absorption

TGA (10-20mg)

Temp. Range \_\_\_\_\_ (°C)

Heating Rate \_\_\_\_\_ (°C/min)

FT-IR (2-5 mg)

Diffuse Reflectance  KBr Pellet  Nujol Mull

Comments: \_\_\_\_\_  
\_\_\_\_\_

\*GMP samples with established specifications require the use of validated methods. For samples with established specifications, please provide a copy (or reference) of the method and any reference to validation data. GMP regulations also require samples be identified with a distinctive code; their source; quantity; and date sample was taken.