**Analytical and Instrumentation Laboratory**

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| --- | --- | --- | --- |
| Name: | First Name | | Last Name |
| Date: Use Drop Down | | Email: Email | |
| Results Format: | PDF | | Text |
| Research Director: | Last Name | | |
| Sample # | Sample ID or Number | | |

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| --- |
| Special Instructions: Special Instructions |
| Structure: |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NATURE OF COMPOUND:** | TOXIC | EXPLOSIVE | IRRITANT | CARCINOGEN | VOLATILE |

|  |  |  |  |
| --- | --- | --- | --- |
| **Spectroscopic Analysis** | | | |
| FTIR  Suggested Technique Results:  %T  Abs | | | |
| Polarimeter [α]D  Solvent: Solvent Sample Wt.: Sample Wt. mg. | | | |
| UV-Vis  Solvent: Solvent | | GC-MS  Solvent: Solvent | |
| CD and Fluorescence By Appointment – Contact Lab Personnel to arrange | | | |
| Circular Dichroism | Conc.: Conc.  Solvent: Solvent | MW: Mol. Wt. | # of Residues: # of AA Residues |
| Fluorescence | Solvent: Solvent | Ex λ: Ex. | Em λ: Em. |

|  |  |  |
| --- | --- | --- |
| **Elemental/Thermal/KF Analysis** | | |
| **CHNS** | **Oxygen** | **Air /  Moisture Sensitive** |
| **%C =** Carbon | **%H =** Hydrogen | **%N =** Nitrogen |
| **%O =** Oxygen | **%S =** Sulfur | **%Cl =** Chloride |
| **%Br =** Bromide | **%F =** Fluoride | **%Other =** Other **(specify)** |
| DSC  TGA  Gas: N2; Ar; Air  Temp. Range: Temperature Range; Heating Rate: Heating Rate ℃/min. | | |
| KF Water and Halogen Analysis By Appointment – Contact Lab Personnel to arrange | | |
| Karl Fischer Water Estimated Water Content (%): Water | | |
| Halogen AgNO3 Titration (Cl, Br, I); Expected Amount (%) = Halogen | | |

**Note:** Minimum sample size for CHNS or O is 5mg. This is the amount that can be easily removed from the vial, not how much is placed in the vial. Duplicate samples will be performed provided there is sufficient sample. Oxygen analysis is not routine, please inquire.