

Protocol for MALDI-TOF Mass Spectrometer

Purpose: Analyze samples using the Mass Spectrometer

Preparation

- 1) Clean mass spectrometer plate by running under tap water. Use a soft bristle brush to clean/scrub the plate, using powdered soap. Scrub ~ 2 minutes.
- 2) Run the soapy plate under water for 2 minutes.
- 3) Change gloves and rinse the plate with methanol. Place the plate into the oven for drying. (~ 10 minutes)
- 4) Spot the coded Mass Spec first with Matrix 2 Solution. Pipet (0.7 μ l) in each spot as the plate.
- 5) Spot the samples with (0.7 μ l) of the analyte solution or fractionalized solutions.
- 6) Calculate the mass of the monomer before placing the plate in MS.

Operation

- 1) Press the eject button
- 2) Insert slide into plate.

Software

- 1) Choose 100 well plate
- 2) Load
- 3) Choose your method from the methods file (ACTH reflector used for peptoid analysis)
- 4) Move the mouse to the first spot and press left button on the joystick to begin. Move the joystick around the spot to obtain a specific reading, then press the left button on the joystick.

Saving Your Data from Good Spots

- 1) Go to Data Storage and move up until your file is found.
Ex: Irma
 Peptoids
 Spot 41
- 2) Press the right button on the joystick for saving.