

6-3-76 Further Processing of Guanine Isolated From Adduct

Purpose: The U.V. spectrum obtained yesterday was not conclusive. The sample will be re-processed to see if a better spectrum can be obtained of the material eluting from the LC column directly into a 1ml cuvette.

Procedure: Take U.V. sample (in 50% EtOH) and rotovap to dryness.

- there were some small pieces of glass (probably from ~~the~~ pasteur pipette) in the bottom.
- wash with ~ 3ml 10% MeOH into a PS vial
- lyophilize
- reconstitute with 100 μ l H₂O

6-4-76 U.V. Spectrum of Guanine from Adduct

Introduction: The experiment on p. 17 failed to produce an interpretable UV spectrum. The Gua peak was evaporated to dryness as described above and dissolved in H₂O (100 μ l) as described above.

- Inject into HPLC eluted under tRNA conditions
- Collect peak in Cuvette
- Obtain U.V. spectrum

Chromatographic Results:

1. Gua from adduct : 95% on X.1 (254 nm)
2. Gua standard : 60% on X.2

Spectroscopic Results : facing page.

Conclusions: The adduct contains a base with an identical U.V. spectrum to guanine.