

Subject

Instructor's Name

12-28-76

Methylation of Guanosine II

- weigh ~~5~~ 51 mg G into 2 ml vial
- try to dissolve in small vol. of DMA - had to use 1 ml, however. Final amt that went in at 130°C (heated several hrs) was ~90% of original wt.
- add ~100 μ l of Dimethylsulfate with Eppendorf pipette (not very accurate)
- t_0 ~ 2:30 PM
- sample started to turn yellow almost immediately.
- sample was almost black at t_f = 4:30 (2 hrs reaction).
- add 3 ml MeOH - no noticeable ppt formed
- rotovap ^(50°C) the? MeOH came off quickly to leave a dark sludge - raised T

NOTE: The guanosine probably is degrading under these conditions! The DMS probably is destroying the ribose - leading to production of colored products. Since the AFB₁-Gua adduct has a ribose-like group, these conditions probably would not be satisfactory for its modification.

- store in freezer.