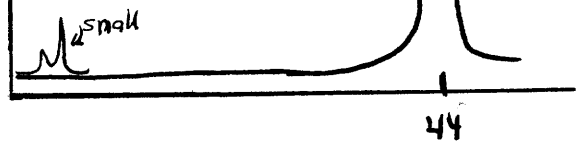


12/30/26

25% Bisocatic

A = 2% EtOH in 0.1M  
AFPH 4.1 mg

B = 40%



12-29-76 Guanosine Methylation III

- 40 mg G in 400  $\mu$ l DMA + 40  $\mu$ l DMS
- stir at room temp  $t_0 = 10:20^{am}$

12:00 - the slurry has almost completely dissolved.  
1:00 - all dissolved - nice and clear.

- $t_f$ : 4:30 pm (~6 hrs total)
- add ~6 drops 1:~6 conc.  $NH_4OH$  to make pH slightly alkaline
- add 1.2 ml acetone  
Obs: white ppt formed, but not as much as the starting material.
- place stirring in ice bath for ~2 hrs
- after 1 1/2 hr - the solution was clear!  
add ether - cloudy (micelles of ether)  
remove ether w/  $N_2$
- add 1 ml acetone - still clear  
This may mean that there was a further reaction of  $m^7G$ .
- evaporate back to ~0.5 ml and store in freezer

12-30-76 Inject diluted sample into HPLC

Conditions: Waters LC with 25x.22 DC4A  
eluted with 0.1 MAF pH 4.10 mixed  
A(75%): 2% EtOH and B(25%): 40% MeOH)  
P=3200  $v = 0.6$  ml/min; col T= 62°C

7-MeGua eluted at ~42 min under these conditions. The Reaction mixture was diluted ~100 fold in buffer prior to injection.

Results - A huge 7-MeGuanosine peak was obtained.