12-30-76

Hydrolysis of Guanosine $m^7$

- Add 0.5ml 2N HCl to 0.5ml of reaction mixture
  - The sample was pH < 1 or less
- Heat 1hr 100°C
- Inject small portion (diluted in buffer) into LC
- Results

![Graph showing peaks](image)

7-MeGua
unknown X

nothing at 7MGuanosine retention time.

NO 9-MeGua was obtained

12-30-76 Analysis of Guanine Methylation Mixture

- The sample of "methylated" guanine from 12-22-76 was rinsed with MeOH and resuspended in 0.1N HCl
- Inject 7µl

![Graph showing peaks](image)

7-MeGua

![Molecule structure](image)

Probable

44 (note: this is also $t_R$ of $m^7G$)

12-30-76 Retention Time of 3-MeGua: 38 min

∴ 3MeGua can be sep. from $m^7G$ and 7,9-DiMeGua