



## Judd Rice Laboratory

at the USC/Norris Comprehensive Cancer Center

[www.histonecode.com](http://www.histonecode.com)

## HMT Assay

Revised by J Sims  
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### Procedure

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1. Prepare reaction mixture:
  - 4uL HAT buffer
  - 2uL 50% glycerol
  - 2uL 3H-SAM
  - x enzyme
  - z substrate (we use 5ug core histones/nucleosomes)
  - dH2O to 20uL
2. Incubate reactions at 30 deg for 30 minutes.  
Half of the reaction can be run on SDS-PAGE for fluorography and the other half can be used for scintillation counting.

### Solutions

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#### HAT Buffer

100mM HEPES  
300mM KCl  
25mM DTT  
2.5mM EDTA