

## Synthesis of Adenyl-serine by Carbodiimide

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1.6 gm L-serine (15 mM) + 1.05 gm ASP (3.0 mM) were mixed with 3 ml H<sub>2</sub>O + 12 ml cold pyridine. Added 4 ml 4 M HCl. Cooled in ice then added 5.0 gm DCC dissolved in 9 ml pyridine.

Time		D <sub>540</sub>
30'	.05 ml	.384
60'	.05	.492
90'	.05 ml	.731
120'	.05	.870
165'	.05	.905

At 3 hrs added 25 ml H<sub>2</sub>O and filtered. Washed 25 ml cold H<sub>2</sub>O. Vol. 55 ml. To this added 650 ml -15° acetone but instead of granular ppt got sticky gelatinous goo on sides of beaker. Poured off sup through filter & washed beaker a little acetone. Dissolved the goo in 70 ml H<sub>2</sub>O (went right in) then washed through filter to dissolve any material which stayed on filter. To this 70 ml solution was slowly added 700 ml -15° absolute alcohol. Almost immediately granular ppt formed which was filtered washed into 300 ml EtOH. Then ca 300 ml ether sucked dry & then put in vacuo over P<sub>2</sub>O<sub>5</sub> + paraffin. Yield 1.0 gm.