Synthesis of Adenyl-serine by Carbodiimide 4/11

1.6 gm L-serine (15 mM) + 105 gm AMP (3.0 mM) were mixed with 3 ml H_2O + 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		D540
30'	.05 ml	.384
60'	.05	.582
90'	.05 ml	.731
120'	.05	.870
165'	.05	.905

At 3 hrs added 25 ml H_2O and filtered. Washed c̄ 5 ml cold H_2O. 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 c̄ little acetone. Dissolved the goo in 70 ml H_2O (went right in) then ~~poured~~ 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 with 300 ml EtOH then ca 300 ml ether, sucked dry & then put in vacuo over P_2O_5 + paraffin.

Yield 1.0 gm