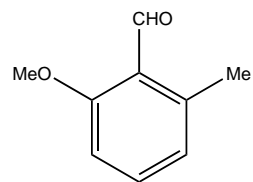
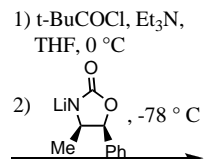


# The Total Synthesis of (-)-Quinocarcin (JACS, 1993, 115, 10742)



1) MeSCH<sub>2</sub>S(O)Me  
Triton B, THF, reflux  
2) HCl.Et<sub>2</sub>O, reflux

A



B

1) KN(TMS)<sub>2</sub>, THF,  
-78 °C  
2) trisyl azide; HOAc  
-78 °C -> rt

C

1) NaBH<sub>4</sub>, THF-H<sub>2</sub>O,  
0 °C  
2) H<sub>2</sub> atm, Pd/C, EtOH

D

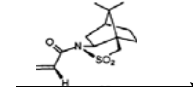
1) maleic anhydride  
2) Ac<sub>2</sub>O, NaOAc, 120 °C  
3) 5 N HCl, THF, rt

E

1) MeN<sub>3</sub>, toluene, rt  
2) hv, dioxane

F

1) hv (2537 Å)  
dioxane



G

1) MOMCl, DIPEA  
2) NBS, CHCl<sub>3</sub>, hv

H

1) Ph<sub>3</sub>P, CHCl<sub>3</sub>  
2) KOtBu, HCONMe<sub>2</sub>  
120 °C

I

1) Raney-Ni, H<sub>2</sub>,  
EtOH, 65 °C  
2) LiOH, THF/H<sub>2</sub>O

J

1) Li/NH<sub>3</sub>, THF,  
-33 °C  
2) NaCN, H<sub>2</sub>O (pH 7)

K

1) TMSCl, NaI,  
AcCN

L

1) AgNO<sub>3</sub>,  
MeOH/H<sub>2</sub>O

