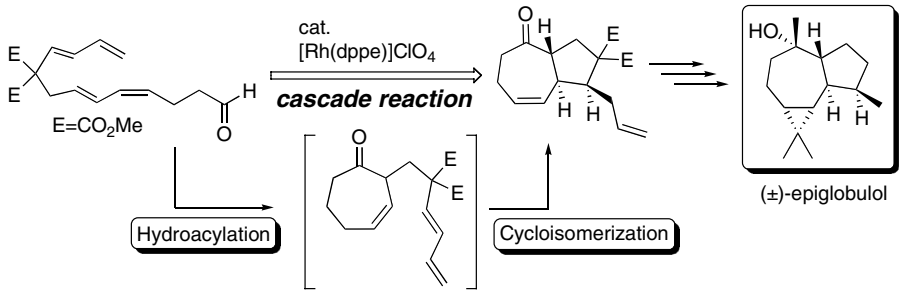
ELSEVIER

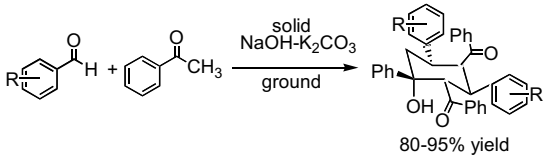
Tetrahedron Letters

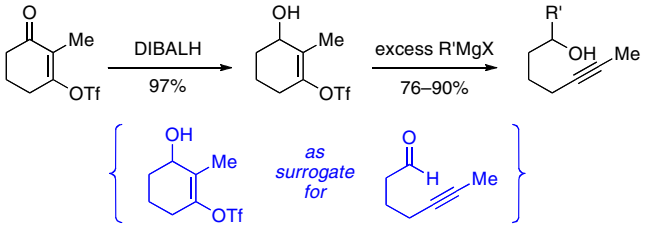
Tetrahedron Letters Vol. 47, No. 32, 2006

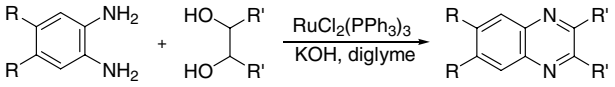
Contents

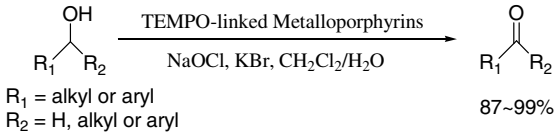
COMMUNICATIONS



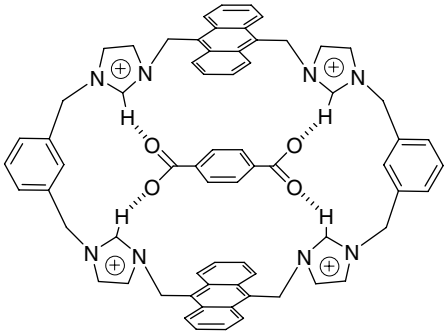


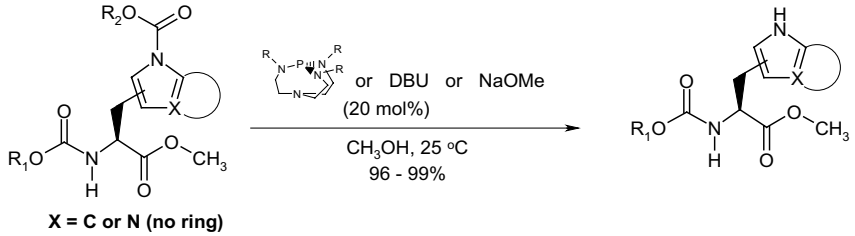


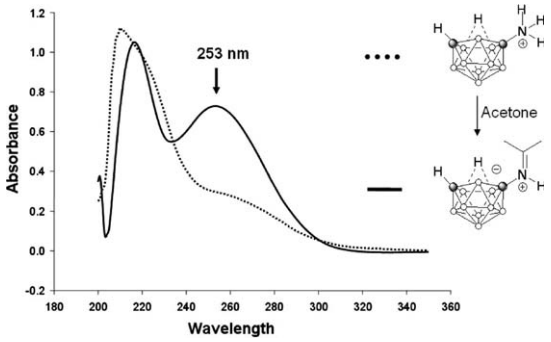


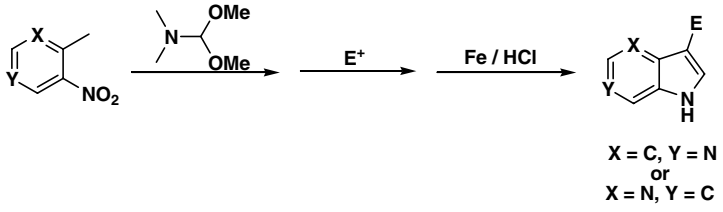


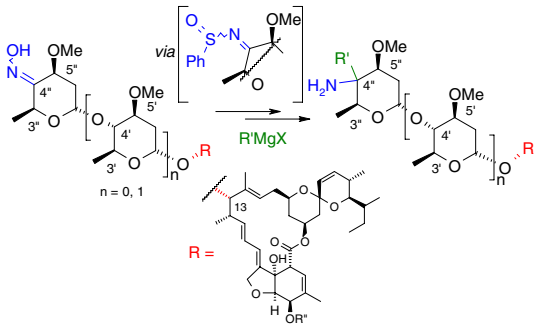
A novel fluorescent calix[8]arene-like chemosensor **1** was designed and synthesized for effectively selective recognition of terephthalate. The receptor enclosed and acted on the special guest by synergistic effects of cavity size, π–π stacking and hydrogen bonding interaction.

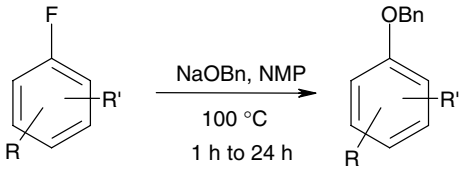




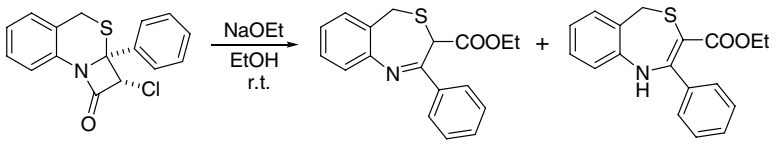


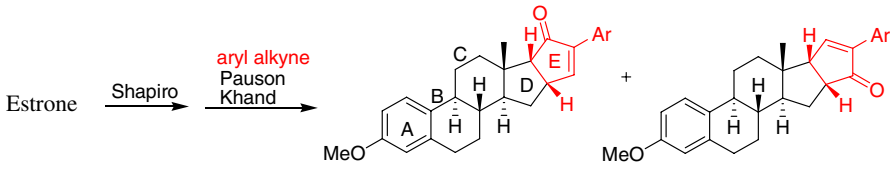


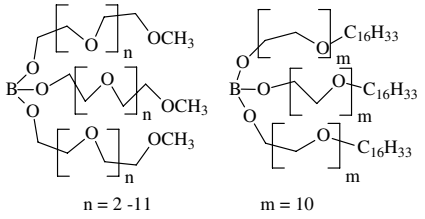


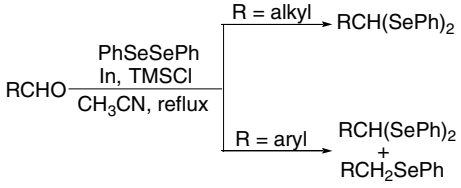


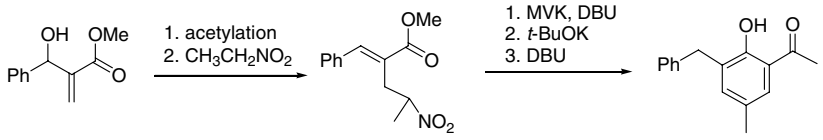
Aromatic fluorides are cleanly and easily substituted by primary and secondary alkoxides in a variety of activated and unactivated benzene rings.

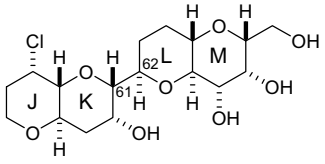


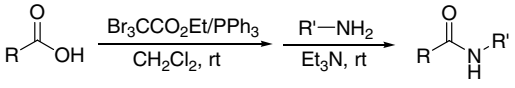


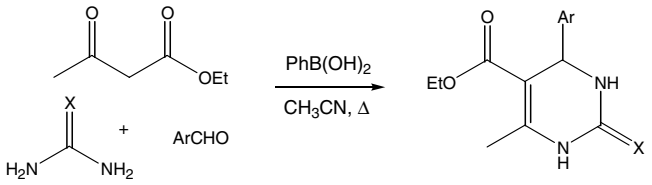


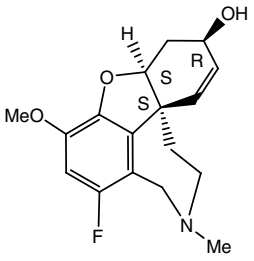




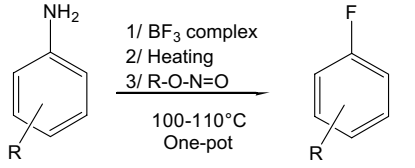




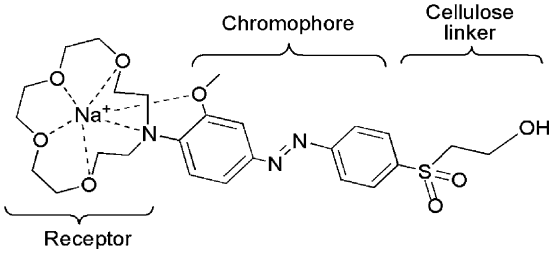


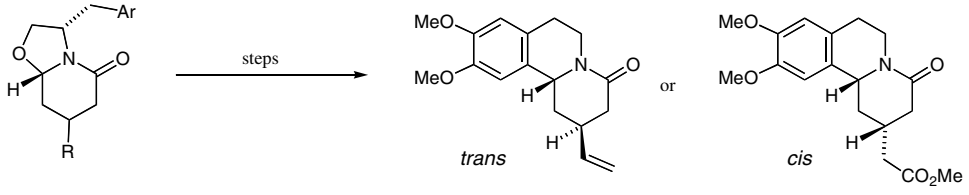


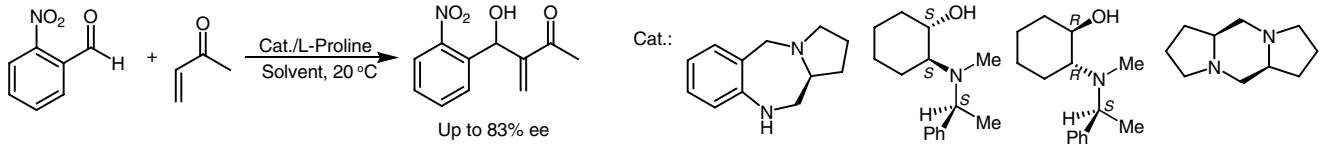
(-)-8-Fluorogalanthamine

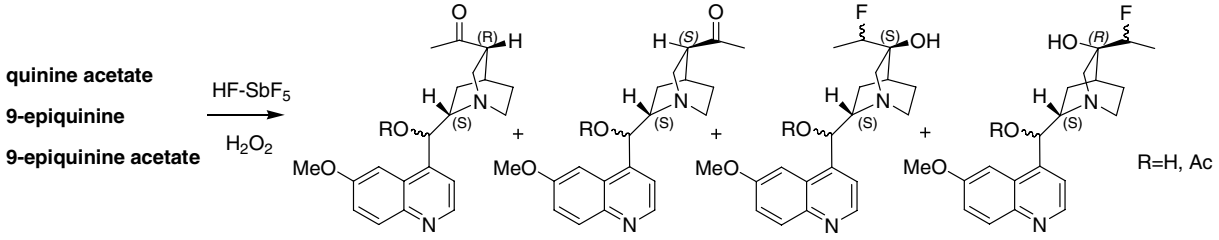


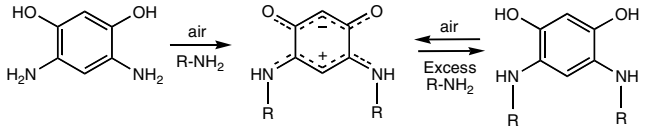
Yield=40-60%



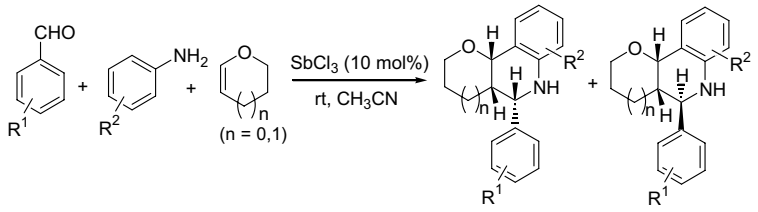


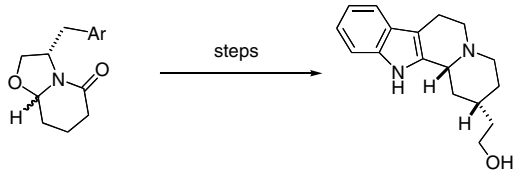


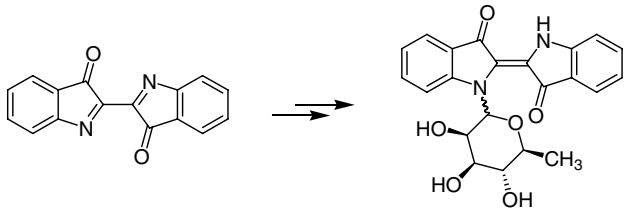


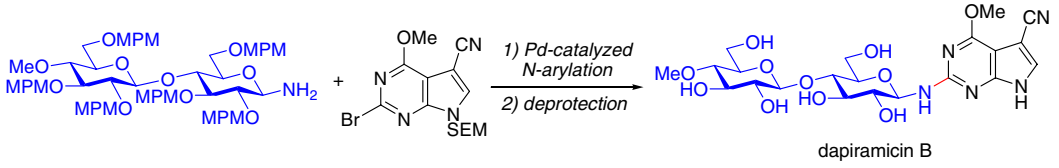


The synthesis and first characterization of *N*-alkyldiaminoresorcinols, known as reactive intermediates, are reported.

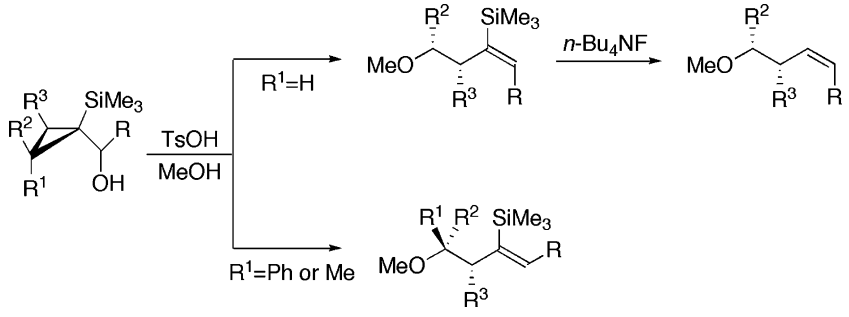


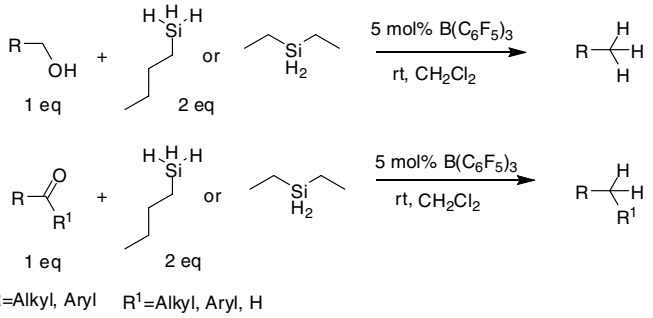


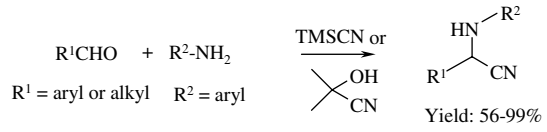




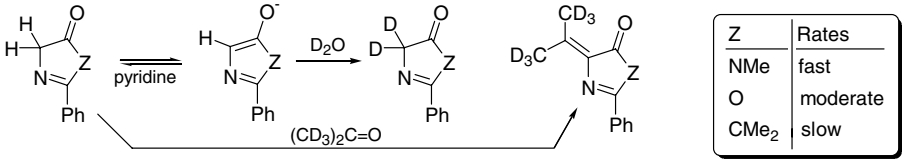
The first total synthesis of dapiramicin B is described. The characteristic N-glycoside linkage was effectively constructed by the Pd-catalyzed N-arylation reaction.

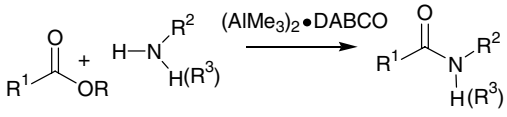




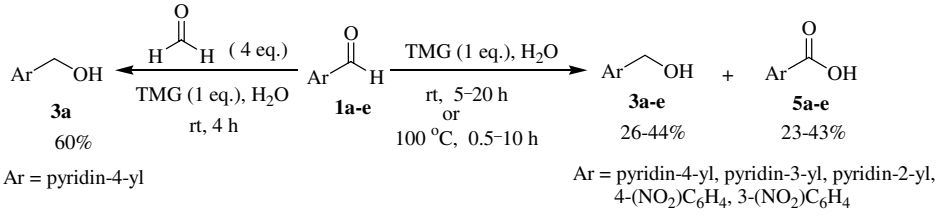


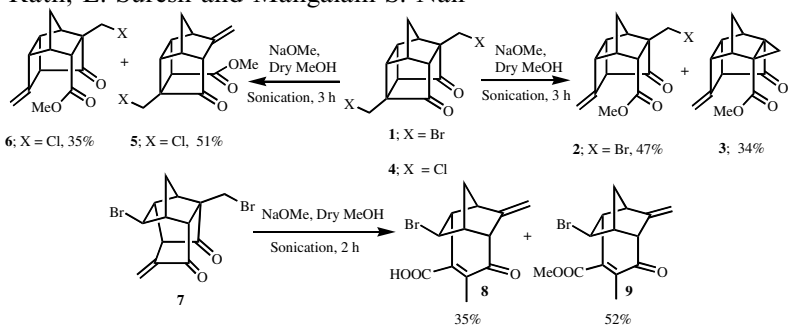
Copper(II) triflate or Et_3N have been found to catalyze, under ambient conditions, the addition of a cyanide anion, such as trimethylsilyl cyanide or acetone cyanohydrin, onto in situ generated imines, furnishing α-aminonitriles in excellent yields.

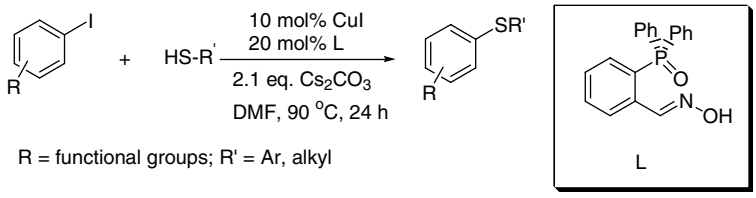


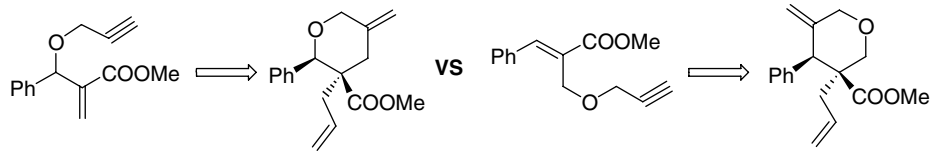


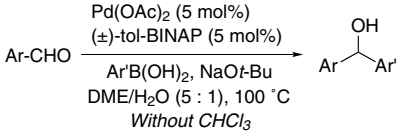
The reagent $(AlMe_3)_2$·DABCO (DABCO is 1,4-diazobicyclo[2.2.2]octane), referred to as DABAL–Me_3, is effective for the direct coupling of amines and esters to provide amides. These reactions may be carried out in air and in THF containing up to 0.05% w/w water.



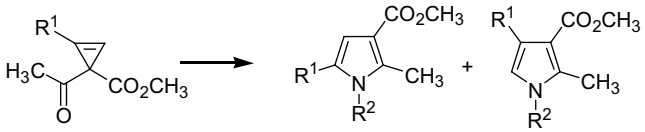




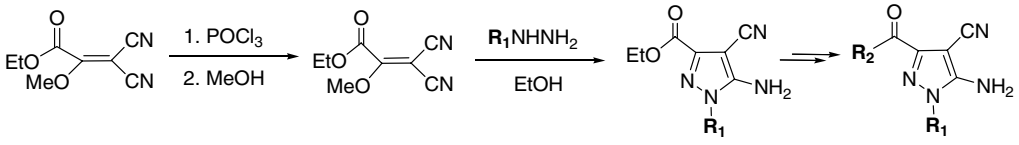


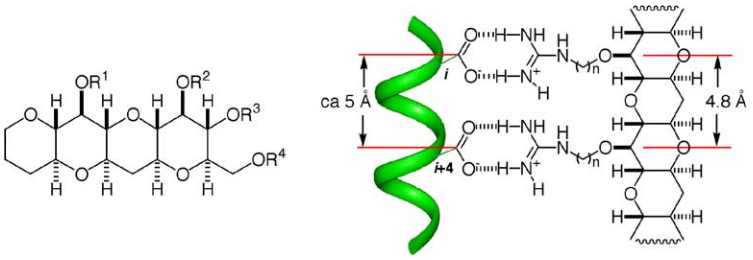


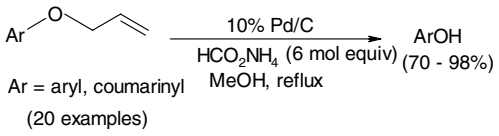
$Pd(OAc)_2$-(±)-tol-BINAP-catalyzed arylation reaction of aromatic aldehydes with arylboronic acids in the absence of $CHCl_3$ is described.



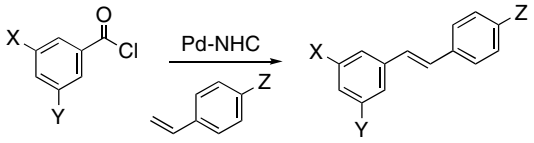
A novel and readily available method for synthesis of pyrroles possessing substituents with various functional groups has been developed, by means of thermal iminocyclopropene rearrangements.

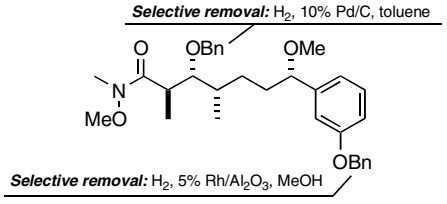




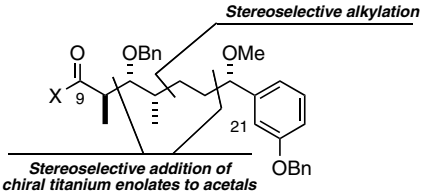


A mild and facile deallylation of allyl ethers of phenols and hydroxycoumarins using 10% Pd/C and ammonium formate is described.

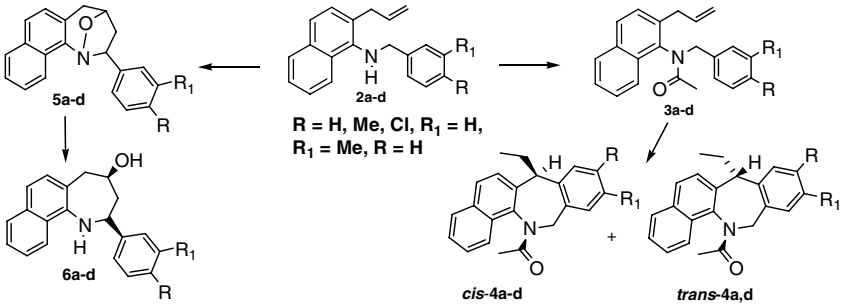


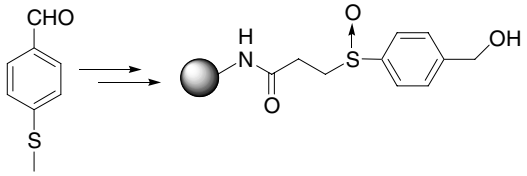


Selective hydrogenolysis of benzyl ethers can be achieved by the appropriate choice of experimental conditions.



Stereoselective synthesis of the benzyl-protected C9–C21 fragment common to debromoaplysiatoxin and oscillatoxins A and D is disclosed.





A new safety catch linker is described for use in solid phase peptide synthesis. The linker is readily synthesized from commercially available chemicals and, when attached to a solid support, is very stable towards strong acid treatment. Final resin cleavage is performed by reductive acidolysis.

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

ELSEVIER

ISSN 0040-4039