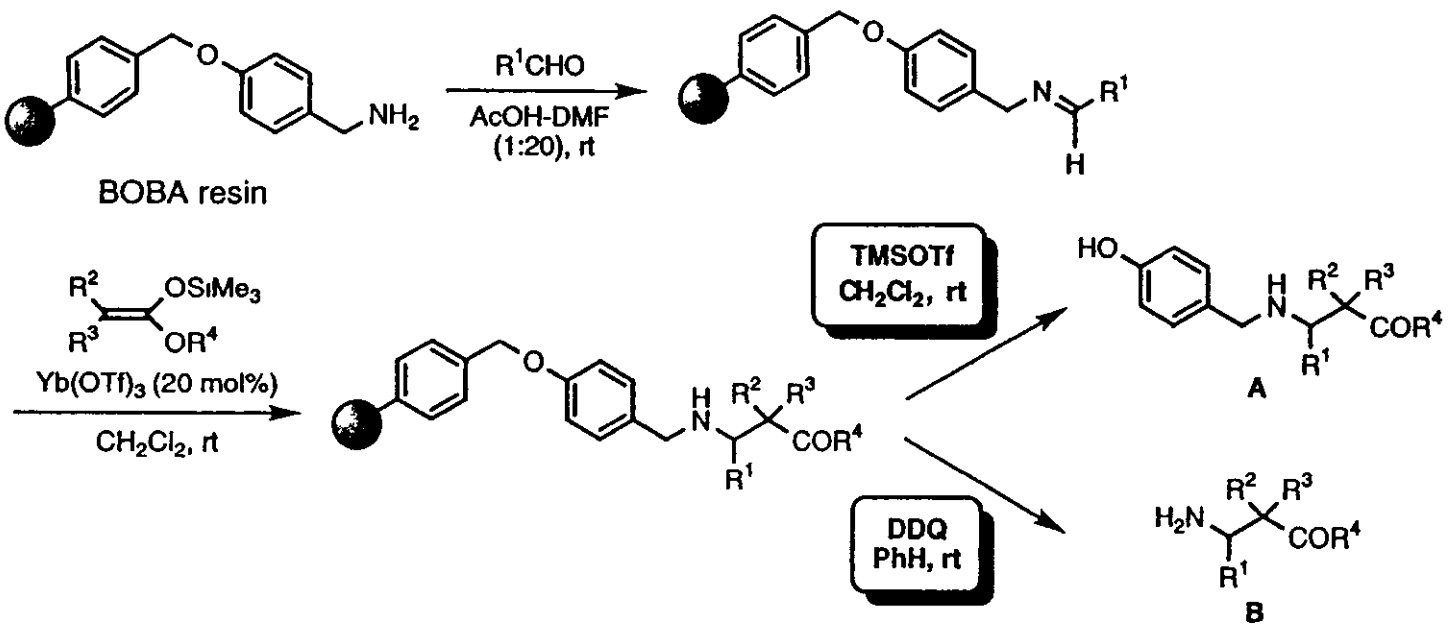
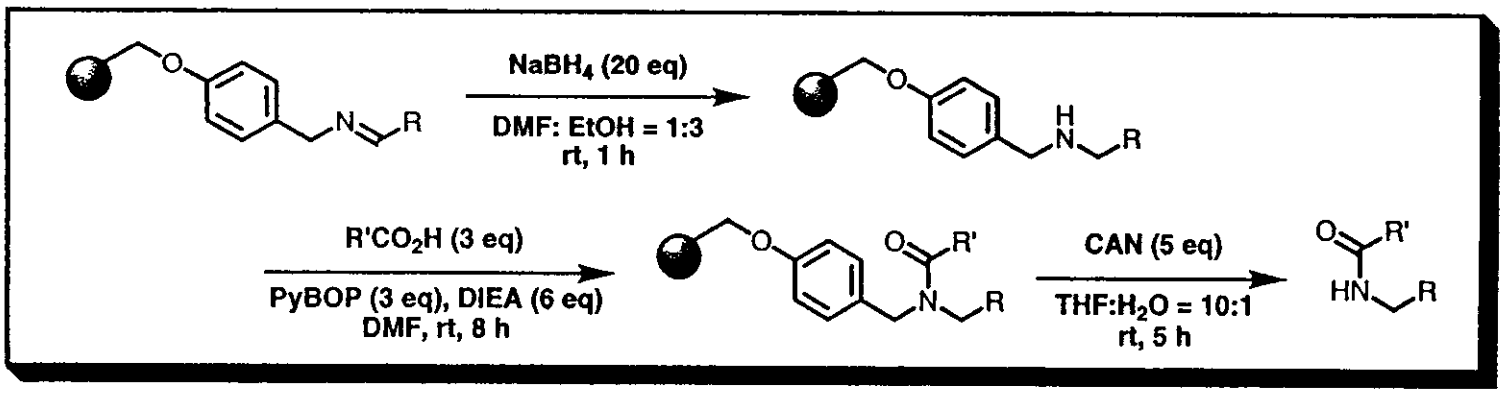
Imino Aldol Reactions Using BOBA resin



R^1	R^2	R^3	R^4	Yield of **A** /%[a)]	Yield of **B** /%[a)]
Ph	Me	Me	Me	**98**	**84**
Ph	H	OBn	^{i}Pr	**78**	**64**
c-C_6H_{11}	Me	Me	Me	**77**	**81**

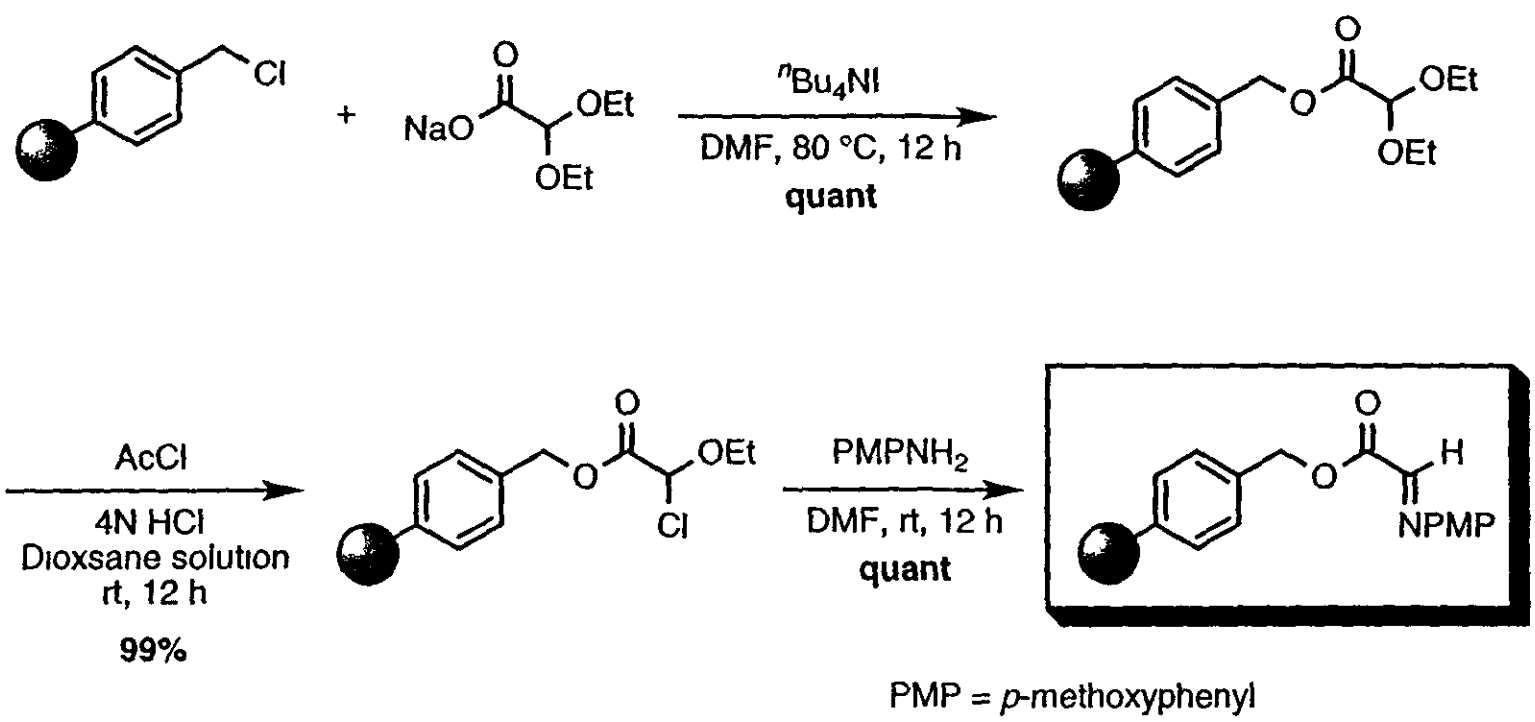
a) Yields are based on the loading of BOBA resin.

Preparation of N-Alkylated Amide Library Using BOBA Resin



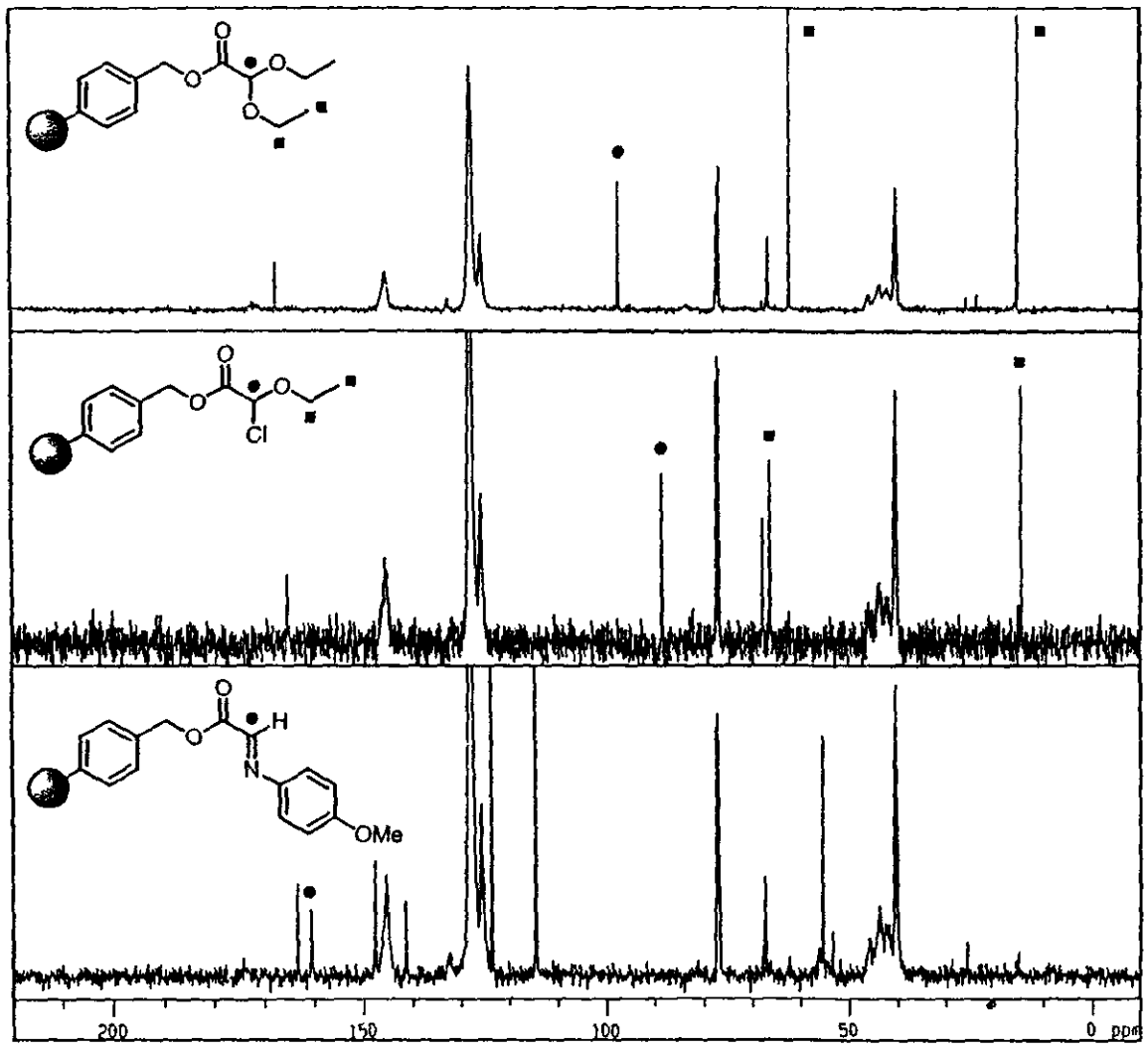
R	$R'CO_2H$	Yield (%)	R	$R'CO_2H$	Yield (%)
Ph	$Ph(CH_2)_2COOH$	**77**	^{n}Pr	$Ph(CH_2)_2COOH$	**82**
	$PhCO_2H$	**58**		$PhCO_2H$	**67**
	FmocGly	**86**		FmocGly	**41**
	FmocPhe	**57**		FmocPhe	**44**
	FmocVal	**44**		FmocVal	**79**
	FmocPro	**60**		FmocPro	**59**
p-MePh	$Ph(CH_2)_2COOH$	**74**	^{t}Bu	$Ph(CH_2)_2COOH$	**77**
	$PhCO_2H$	**87**		$PhCO_2H$	**67**
	FmocGly	**93**		FmocGly	**53**
	FmocPhe	**65**		FmocPhe	**79**
	FmocVal	**65**		FmocVal	**65**
	FmocPro	**68**		FmocPro	**60**

Synthesis of Polymer-Supported α-Iminoacetate

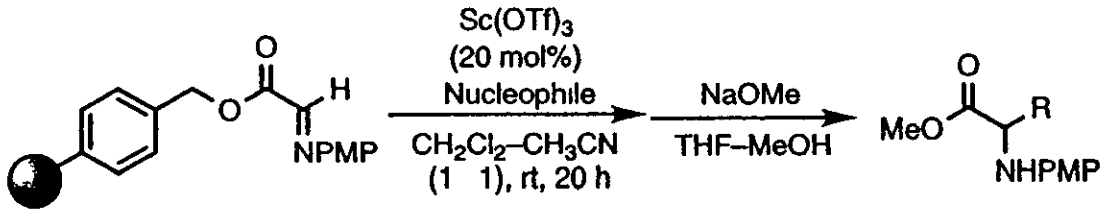


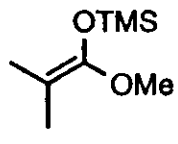
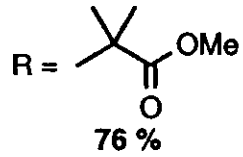
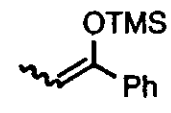
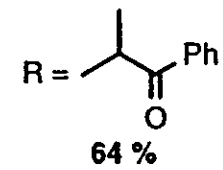
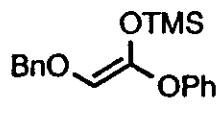
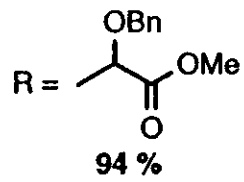
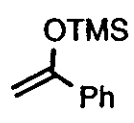
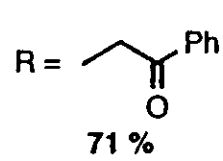
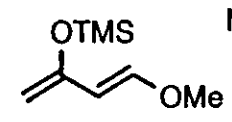
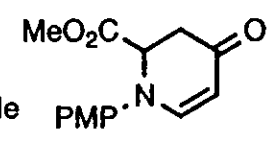
PMP = *p*-methoxyphenyl

^{13}C Swollen-Resin Magic Angle Spinning (SR-MAS) NMR



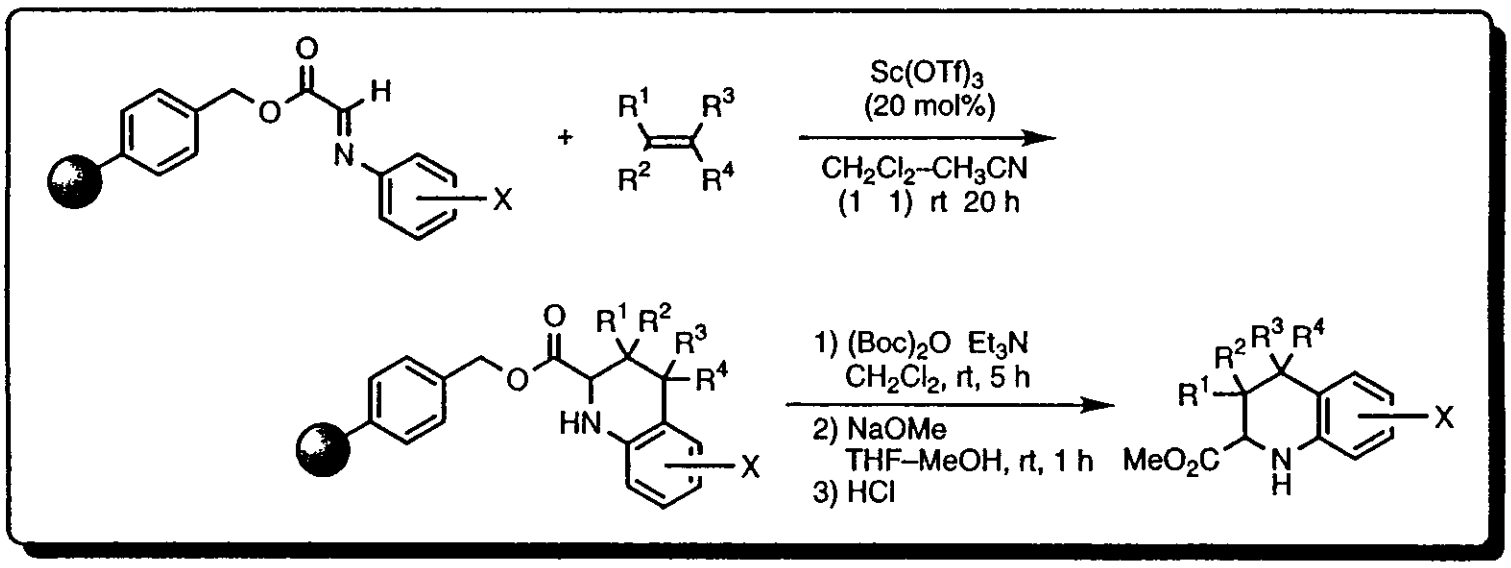
Synthesis of α-Amino Acid Derivatives

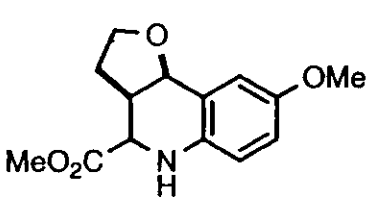


Entry	Nucleophile	Product	Entry	Nucleophile	Product
1		 76 %	4[a]		 64 %
2		 94 %			
3[a]		 71 %	5[b]		 69 %

a) 40 mol% $Sc(OTf)_3$ was used b) Reaction was perfomed at –5 °C

Synthesis of Tetrahydroquinoline Derivatives

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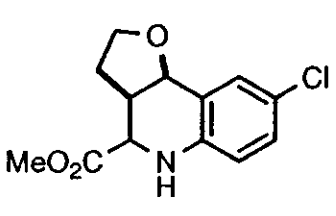
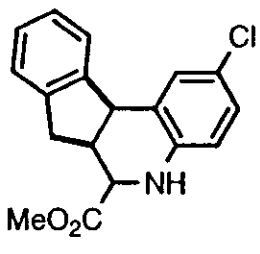
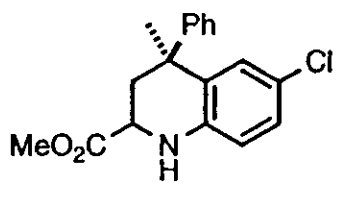

84%


95%


55%