Figure 1

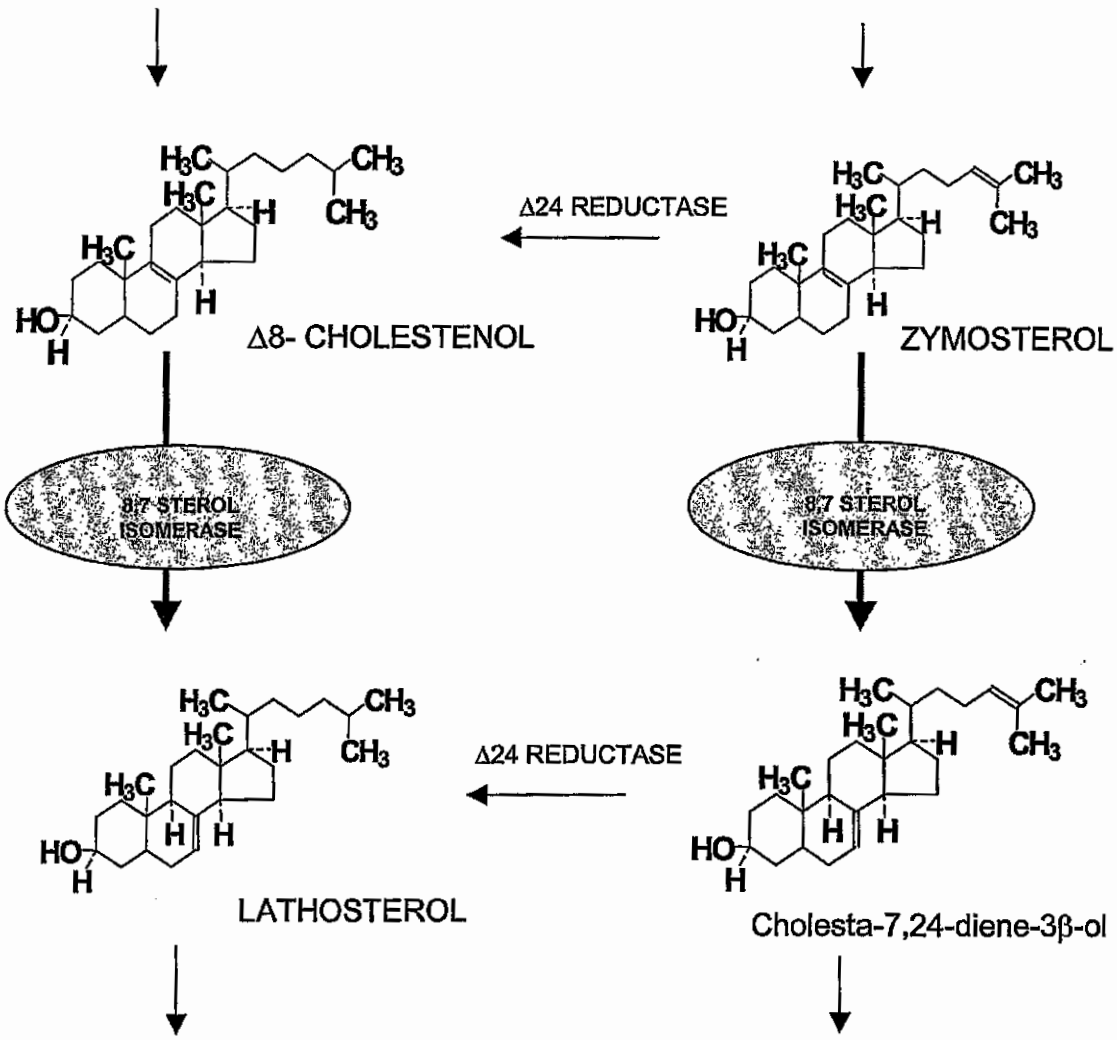

Δ24 REDUCTASE
Δ8- CHOLESTENOL
ZYMOSTEROL
8,7 STEROL ISOMERASE
8,7 STEROL ISOMERASE
Δ24 REDUCTASE
LATHOSTEROL
Cholesta-7,24-diene-3β-ol

Figure 2

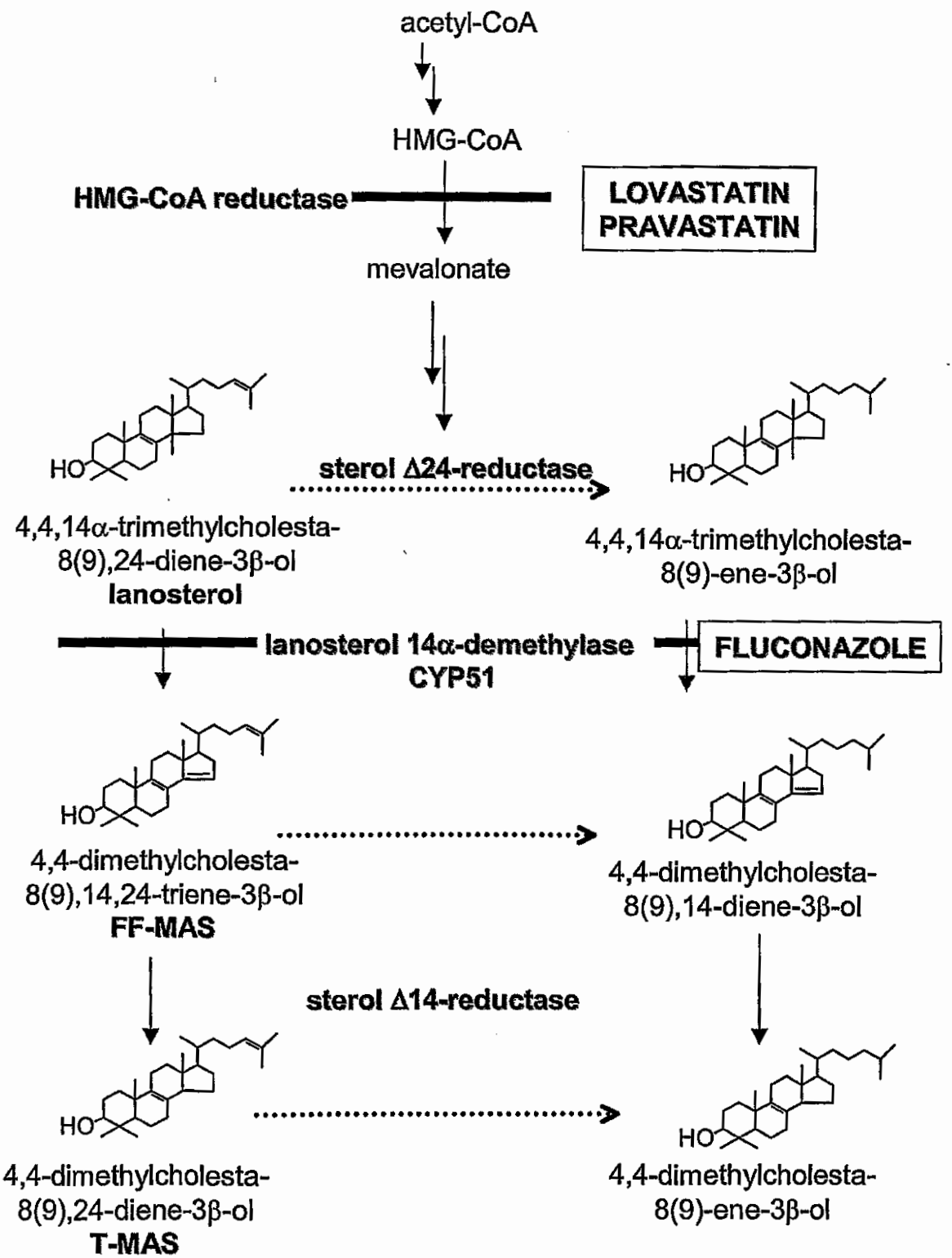

acetyl-CoA
HMG-CoA
HMG-CoA reductase
LOVASTATIN
PRAVASTATIN
mevalonate
HO
sterol Δ24-reductase
4,4,14α-trimethylcholesta-8(9),24-diene-3β-ol
lanosterol
4,4,14α-trimethylcholesta-8(9)-ene-3β-ol
lanosterol 14α-demethylase
CYP51
FLUCONAZOLE
4,4-dimethylcholesta-8(9),14,24-triene-3β-ol
FF-MAS
4,4-dimethylcholesta-8(9),14-diene-3β-ol
sterol Δ14-reductase
4,4-dimethylcholesta-8(9),24-diene-3β-ol
T-MAS
4,4-dimethylcholesta-8(9)-ene-3β-ol

Figure 2

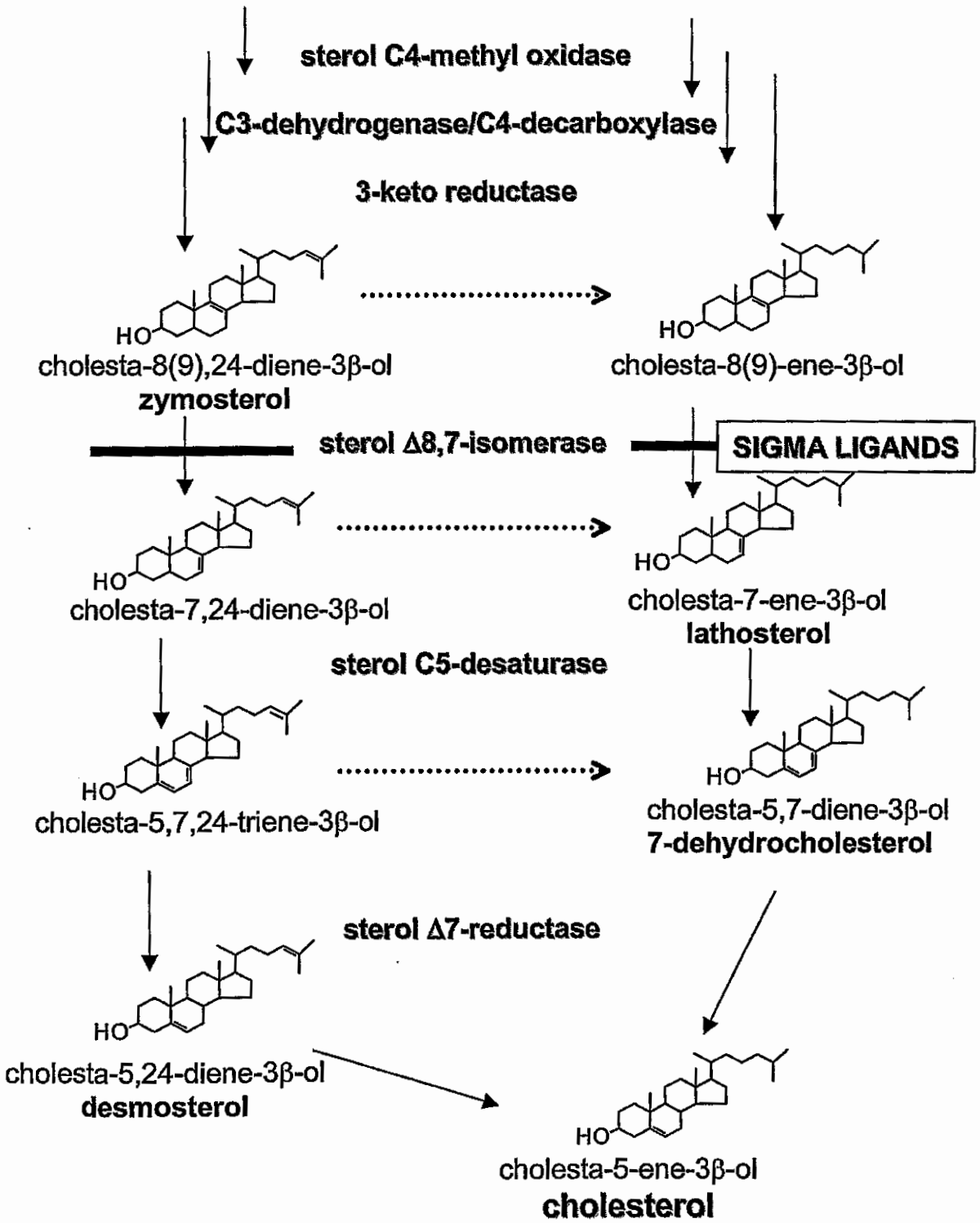
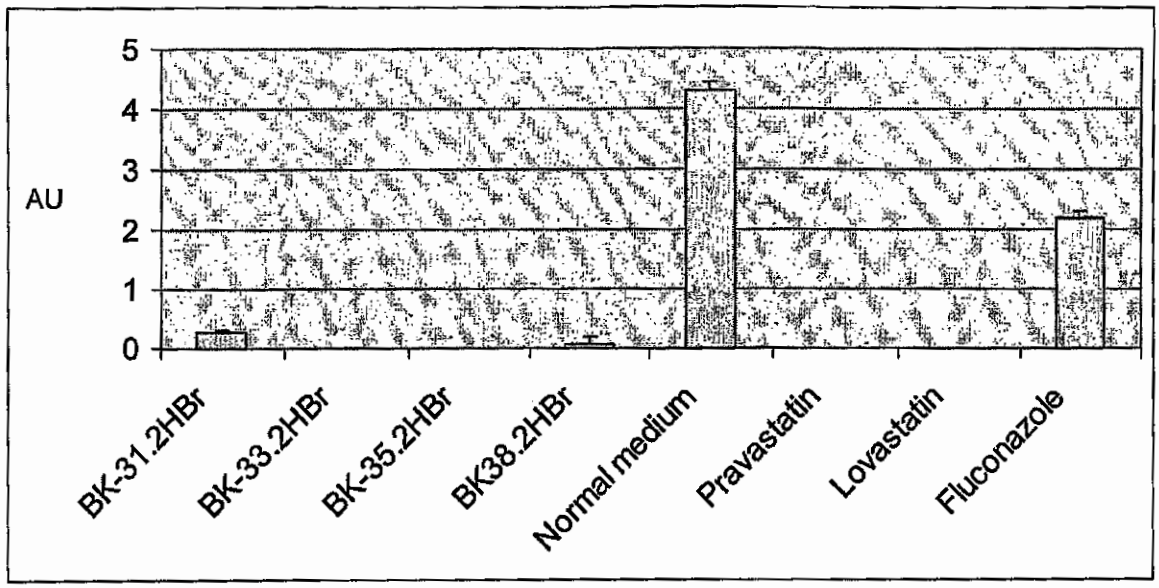

sterol C4-methyl oxidase
C3-dehydrogenase/C4-decarboxylase
3-keto reductase
HO
cholesta-8(9),24-diene-3β-ol
zymosterol
cholesta-8(9)-ene-3β-ol
sterol Δ8,7-isomerase
SIGMA LIGANDS
cholesta-7,24-diene-3β-ol
cholesta-7-ene-3β-ol
lathosterol
sterol C5-desaturase
cholesta-5,7,24-triene-3β-ol
cholesta-5,7-diene-3β-ol
7-dehydrocholesterol
sterol Δ7-reductase
cholesta-5,24-diene-3β-ol
desmosterol
cholesta-5-ene-3β-ol
cholesterol

Figure 3

A


AU
5
4
3
2
1
0
BK-31.2HBr
BK-33.2HBr
BK-35.2HBr
BK38.2HBr
Normal medium
Pravastatin
Lovastatin
Fluconazole

B

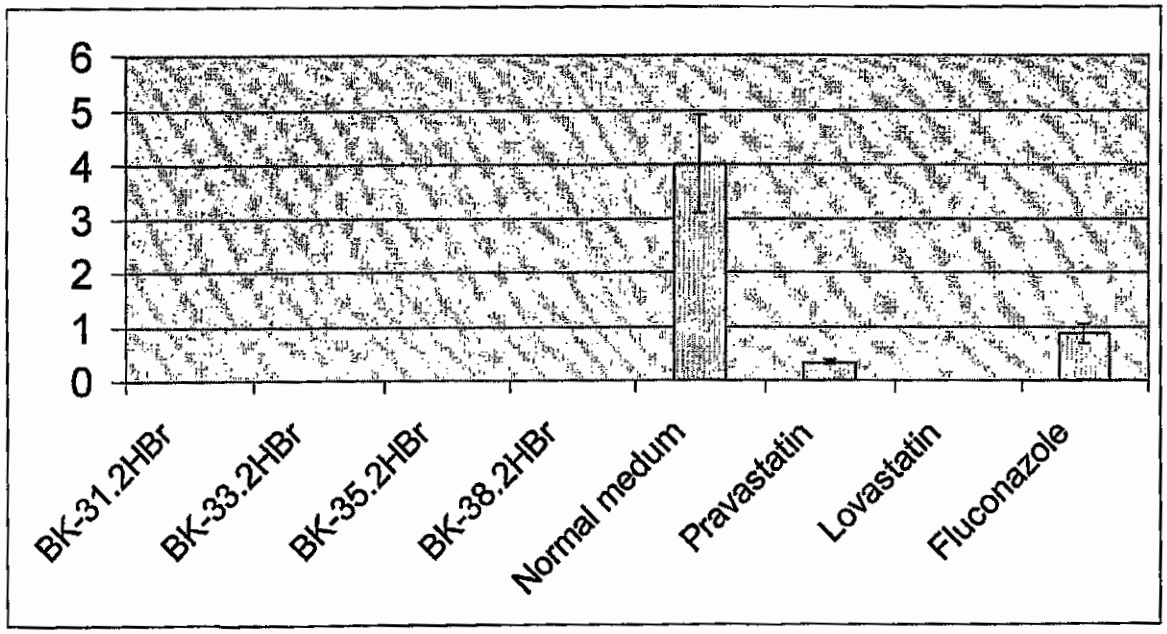
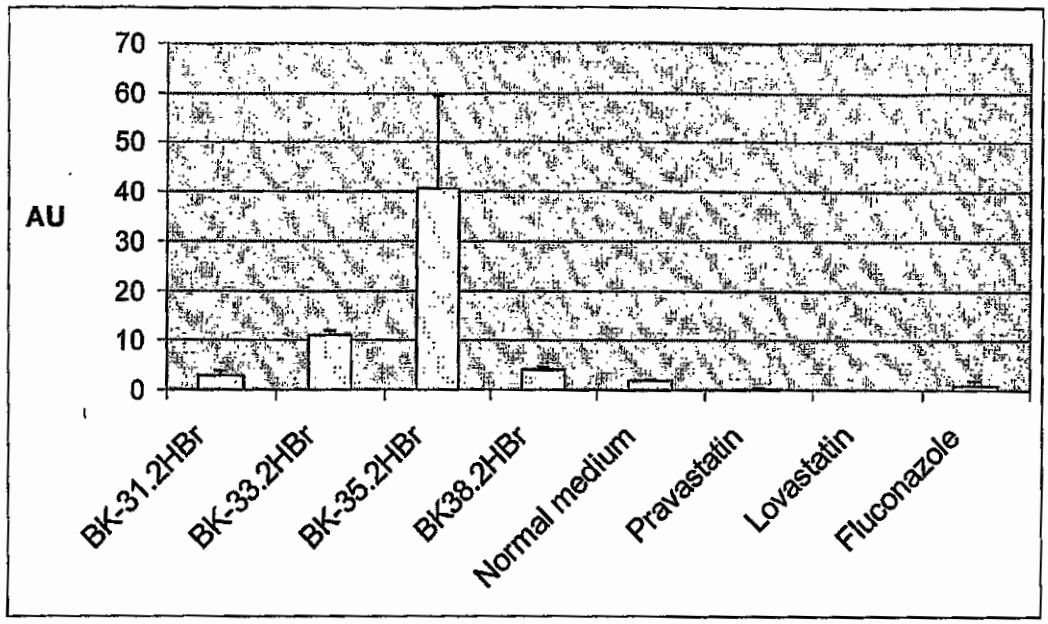

6
5
4
3
2
1
0
BK-31.2HBr
BK-33.2HBr
BK-35.2HBr
BK-38.2HBr
Normal medum
Pravastatin
Lovastatin
Fluconazole

Figure 4

A


70
60
50
40
30
20
10
0
AU
BK-31.2HBr
BK-33.2HBr
BK-35.2HBr
BK38.2HBr
Normal medium
Pravastatin
Lovastatin
Fluconazole

B

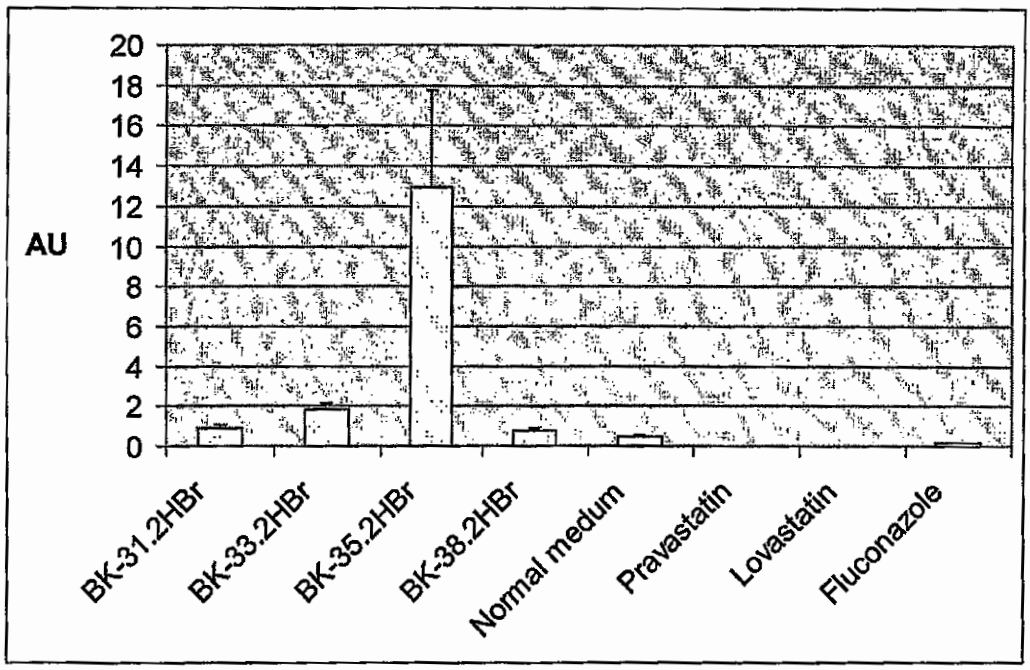
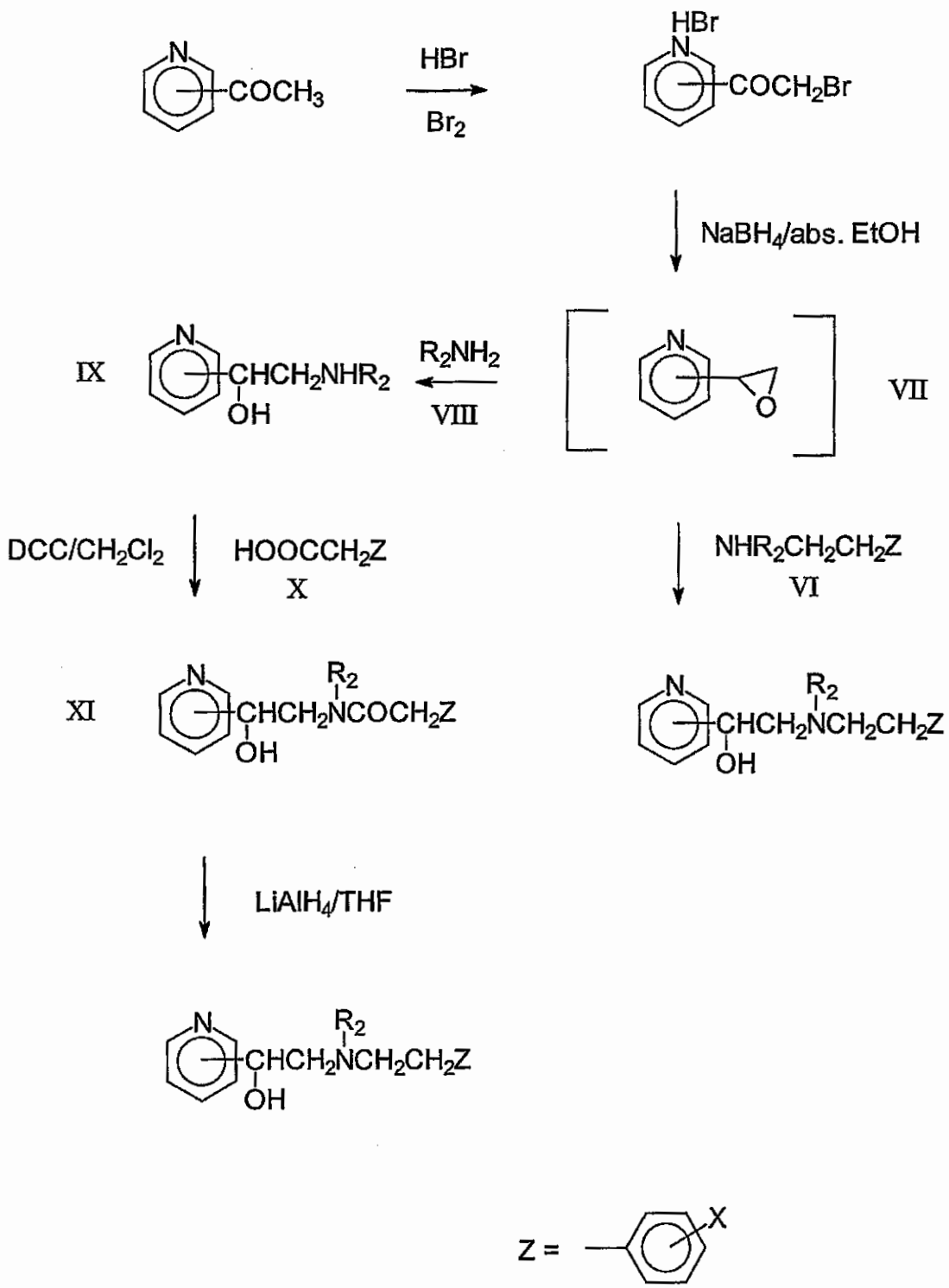

20
18
16
14
12
10
8
6
4
2
0
AU
BK-31.2HBr
BK-33.2HBr
BK-35.2HBr
BK-38.2HBr
Normal medum
Pravastatin
Lovastatin
Fluconazole

Figure 5


HBr
Br2
NaBH4/abs. EtOH
R2NH2
VIII
IX
VII
DCC/CH2Cl2
HOOCCH2Z
X
NHR2CH2CH2Z
VI
XI
LiAlH4/THF
Z =
X

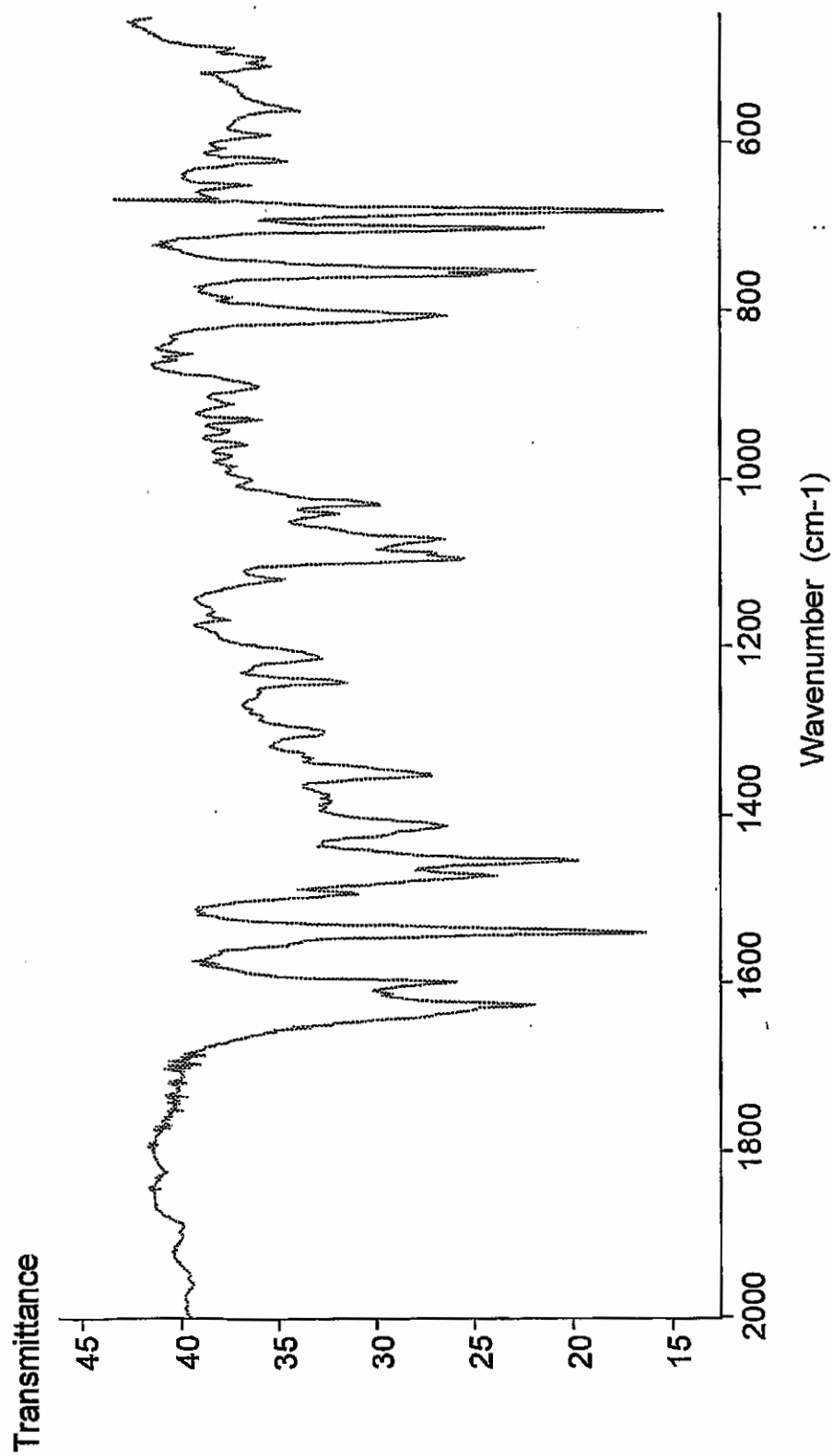

Transmittance
45
40
35
30
25
20
15
2000
1800
1600
1400
1200
1000
800
600
Wavenumber (cm-1)

Figure 6

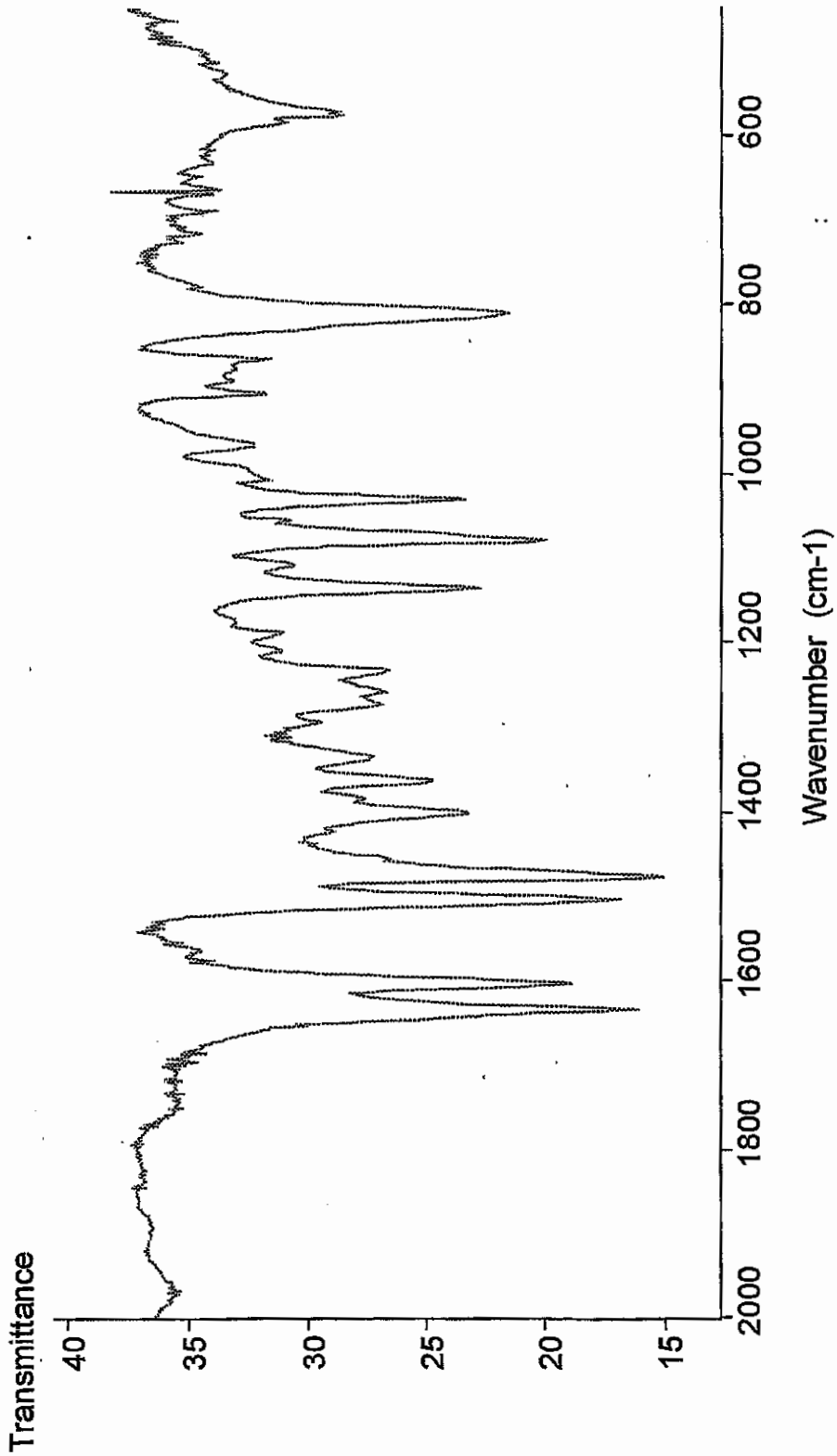

Transmittance
40
35
30
25
20
15
2000
1800
1600
1400
1200
1000
800
600
Wavenumber (cm-1)

Figure 7

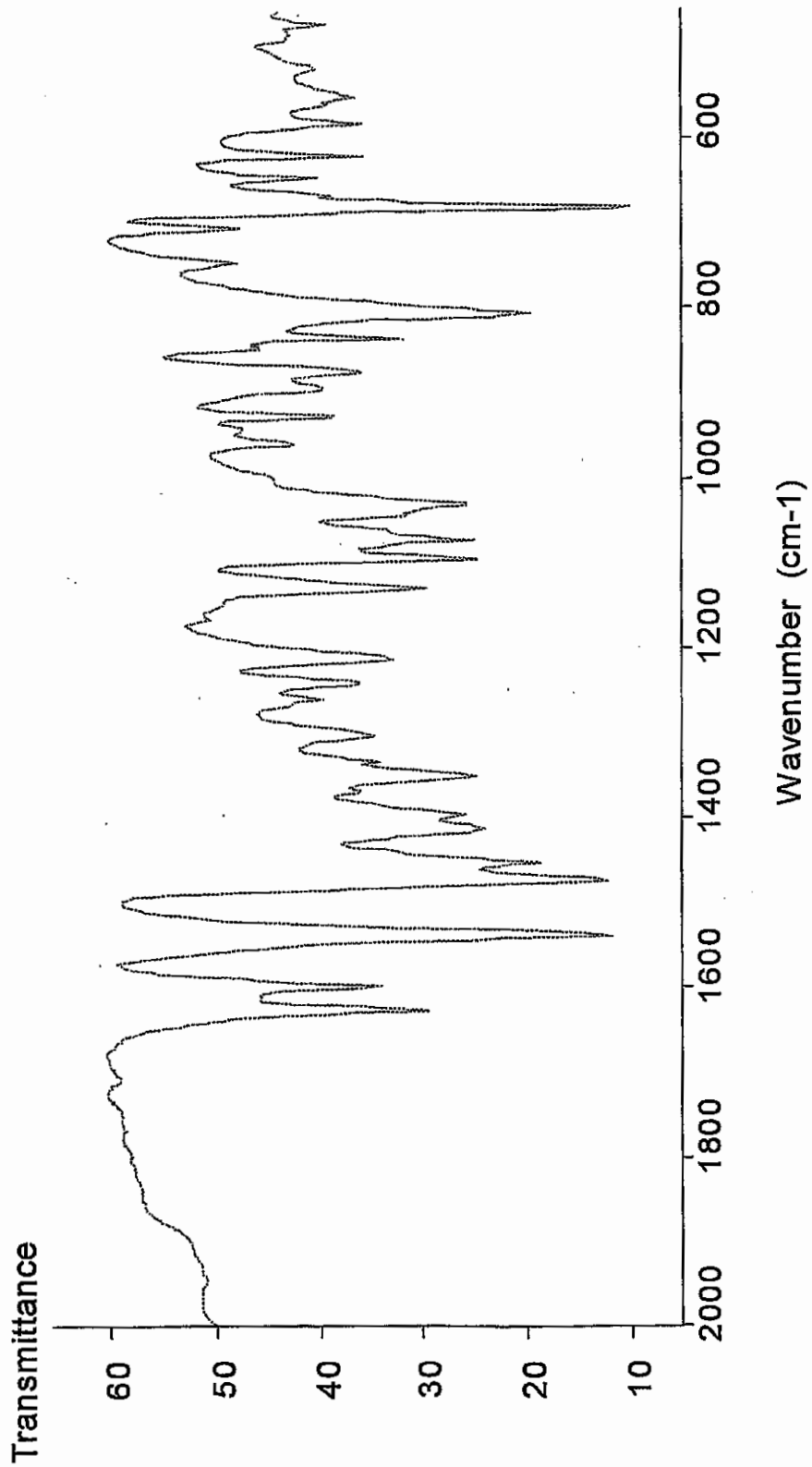
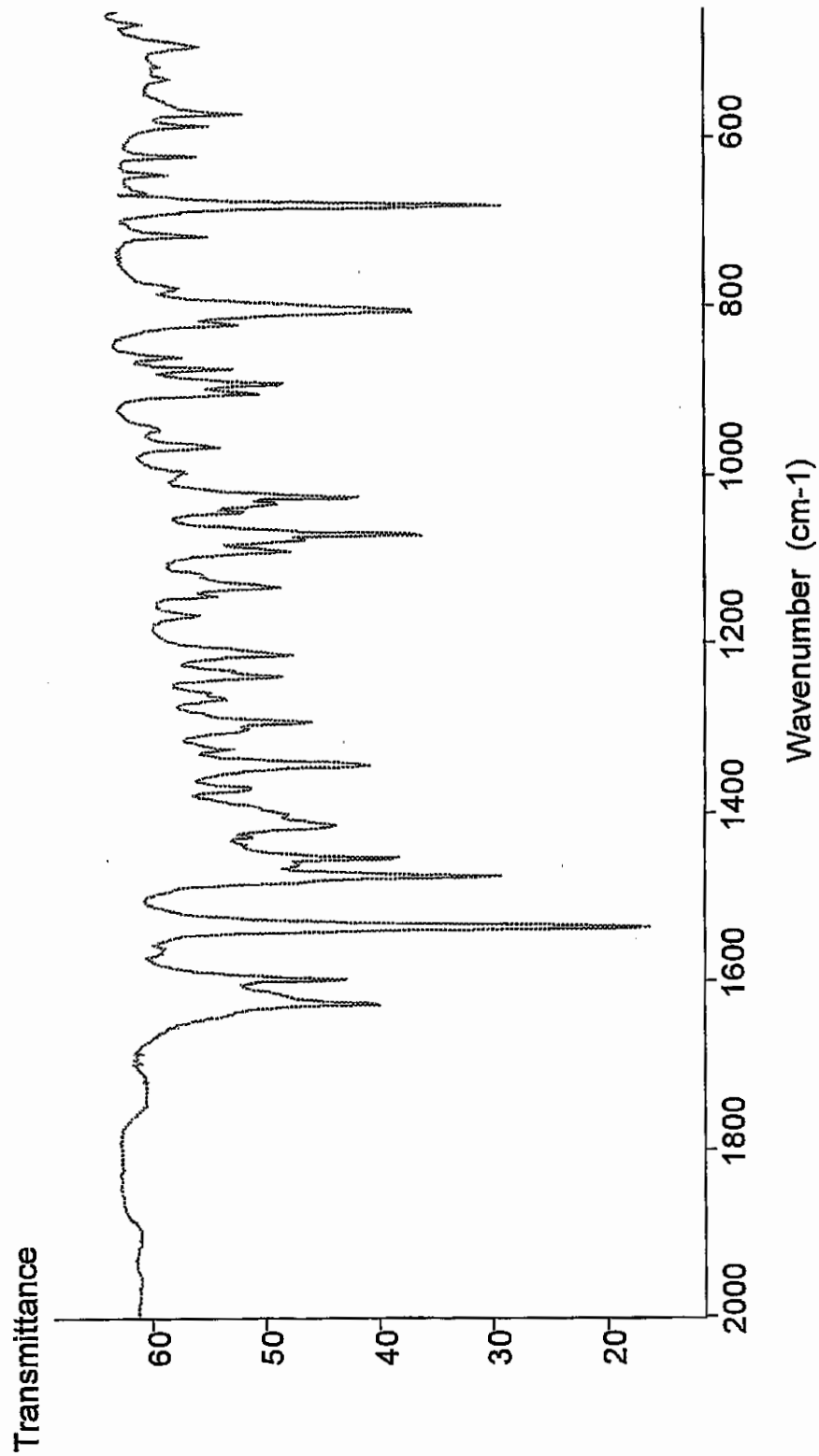

Transmittance
60
50
40
30
20
10
2000
1800
1600
1400
1200
1000
800
600
Wavenumber (cm-1)

Figure 8

Figure 9


Transmittance
60
50
40
30
20
2000
1800
1600
1400
1200
1000
800
600
Wavenumber (cm-1)