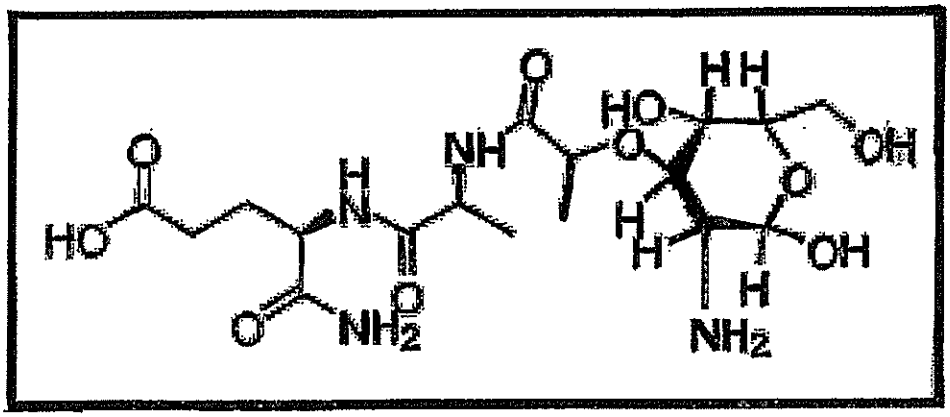
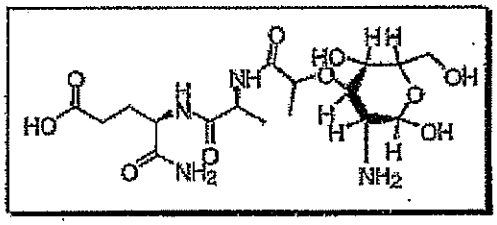
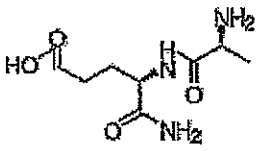




+



Hyphin (dAcMDP) **D-Ala-L-isoGln**

FIGURE 1

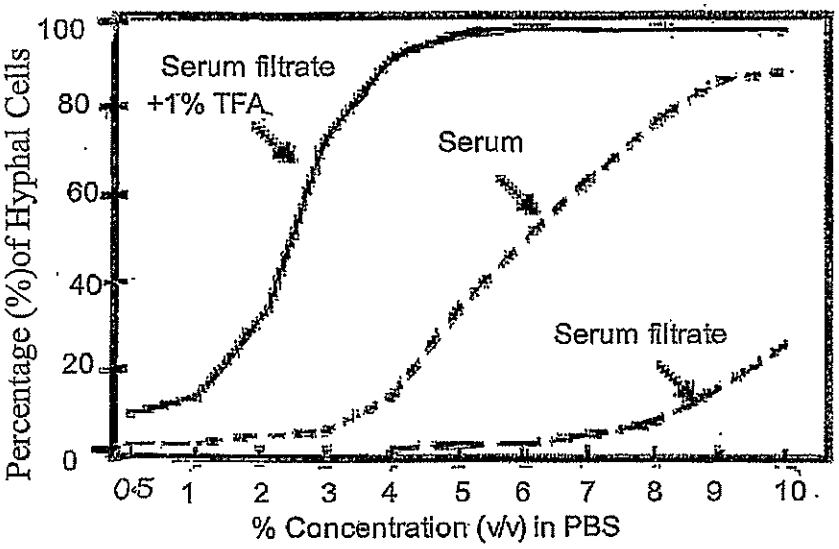

Percentage (%) of Hyphal Cells
100
80
60
40
20
0
Serum filtrate
+1% TFA
Serum
Serum filtrate
0·5
1
2
3
4
5
6
7
8
9
10
% Concentration (v/v) in PBS

FIGURE 2

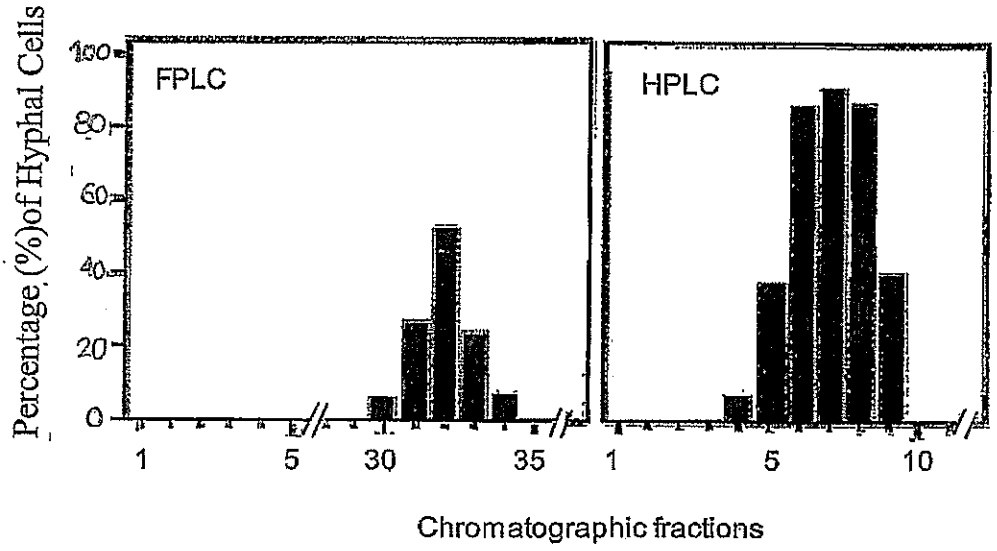

Percentage (%) of Hyphal Cells
100
80
60
40
20
0
FPLC
HPLC
1
5
30
35
1
5
10
Chromatographic fractions

FIGURE 3

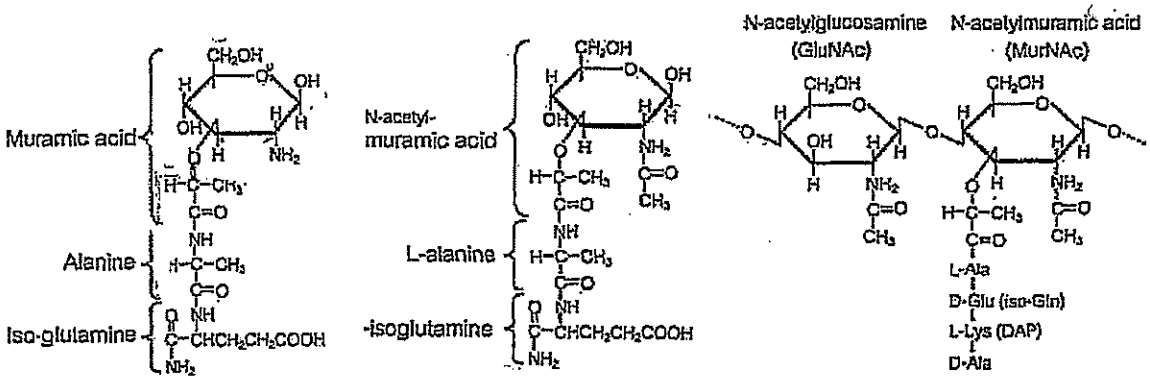

Muramic acid
Alanine
Iso-glutamine
N-acetyl-
muramic acid
L-alanine
-isoglutamine
N-acetylglucosamine
(GluNAc)
N-acetylmuramic acid
(MurNAc)
L-Ala
D-Glu (iso-Gln)
L-Lys (DAP)
D-Ala

FIGURE 4

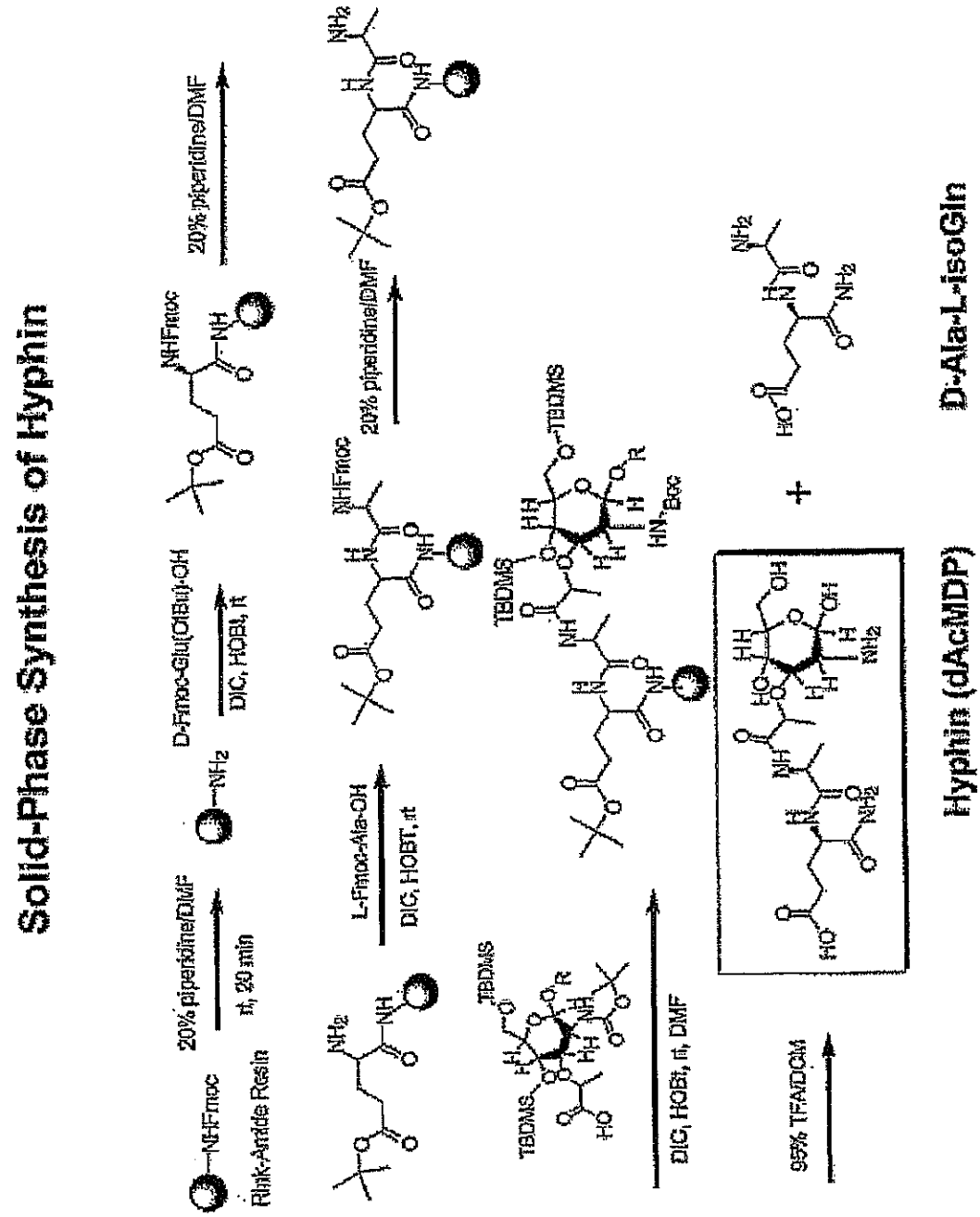

Solid-Phase Synthesis of Hyphin
Rink-Amide Resin
20% piperidine/DMF
rt, 20 min
D-Fmoc-Glu(OtBu)-OH
DIC, HOBt, rt
20% piperidine/DMF
L-Fmoc-Ala-OH
DIC, HOBT, rt
20% piperidine/DMF
DIC, HOBt, rt, DMF
95% TFA/DCM
Hyphin (dAcMDP)
D-Ala-L-isoGln

FIGURE 5