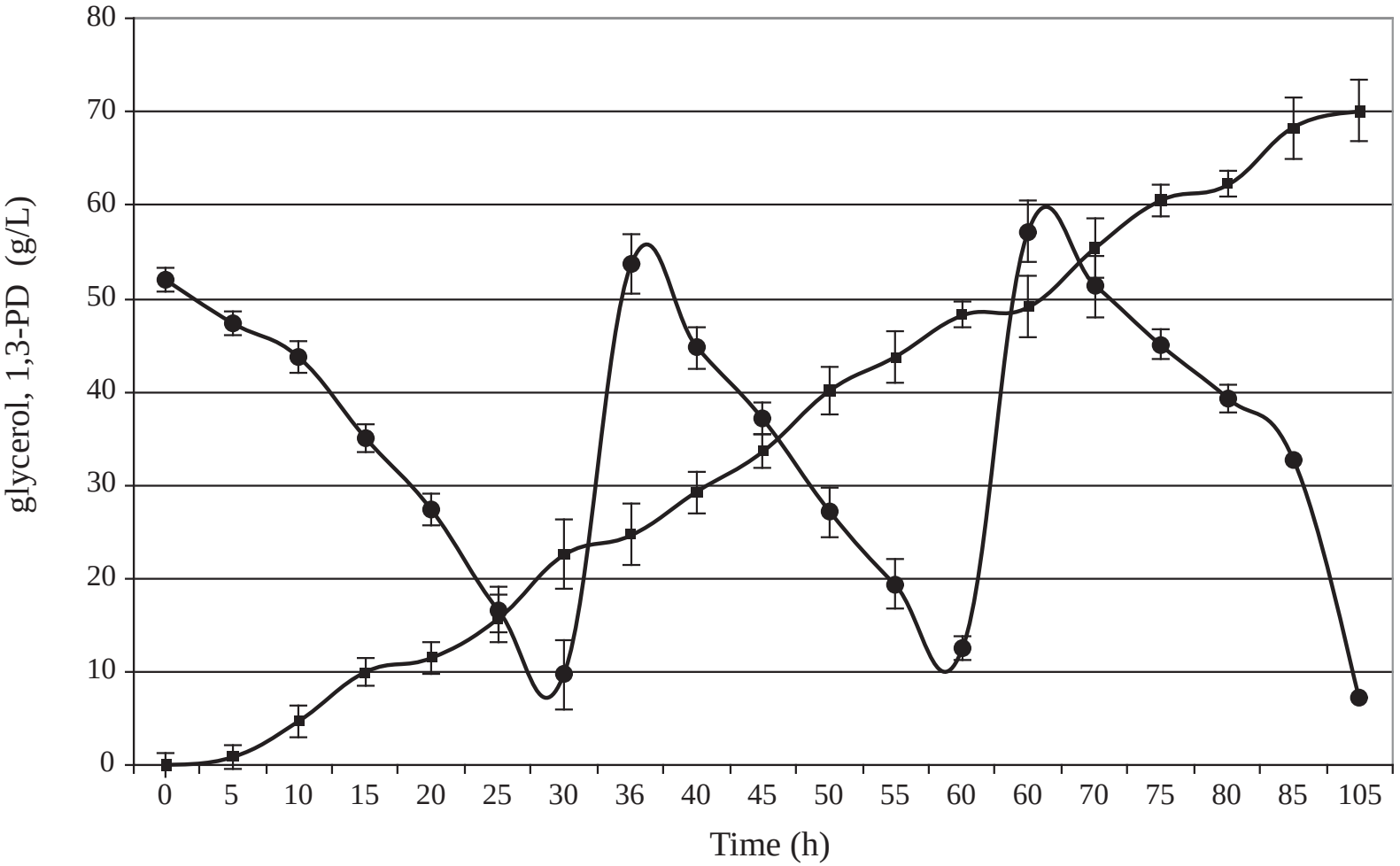
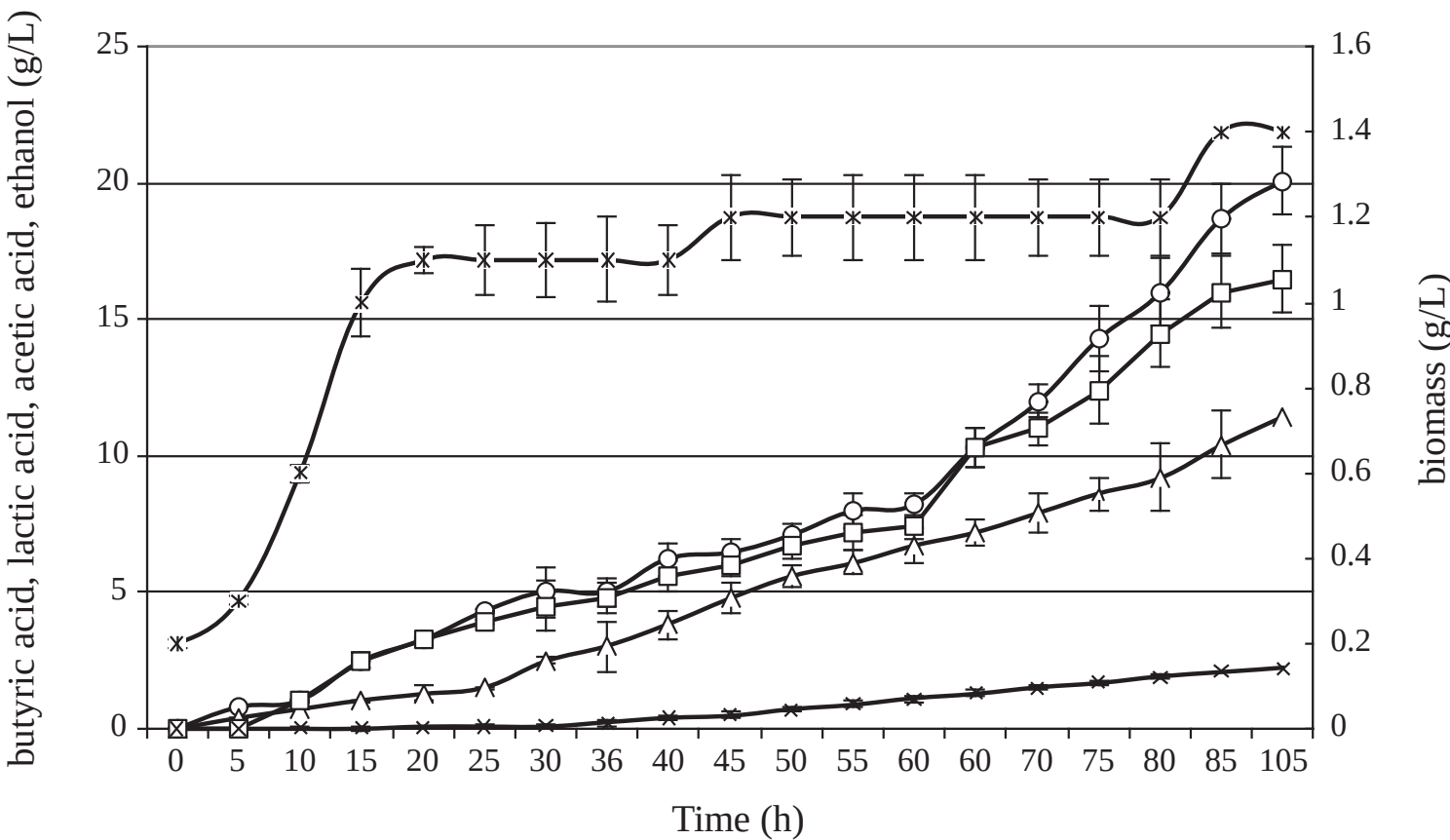
a)


glycerol, 1,3-PD (g/L)
80
70
60
50
40
30
20
10
0
0 5 10 15 20 25 30 36 40 45 50 55 60 60 70 75 80 85 105
Time (h)

b)


butyric acid, lactic acid, acetic acid, ethanol (g/L)
biomass (g/L)
25
20
15
10
5
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0 5 10 15 20 25 30 36 40 45 50 55 60 60 70 75 80 85 105
Time (h)