Fig. 1

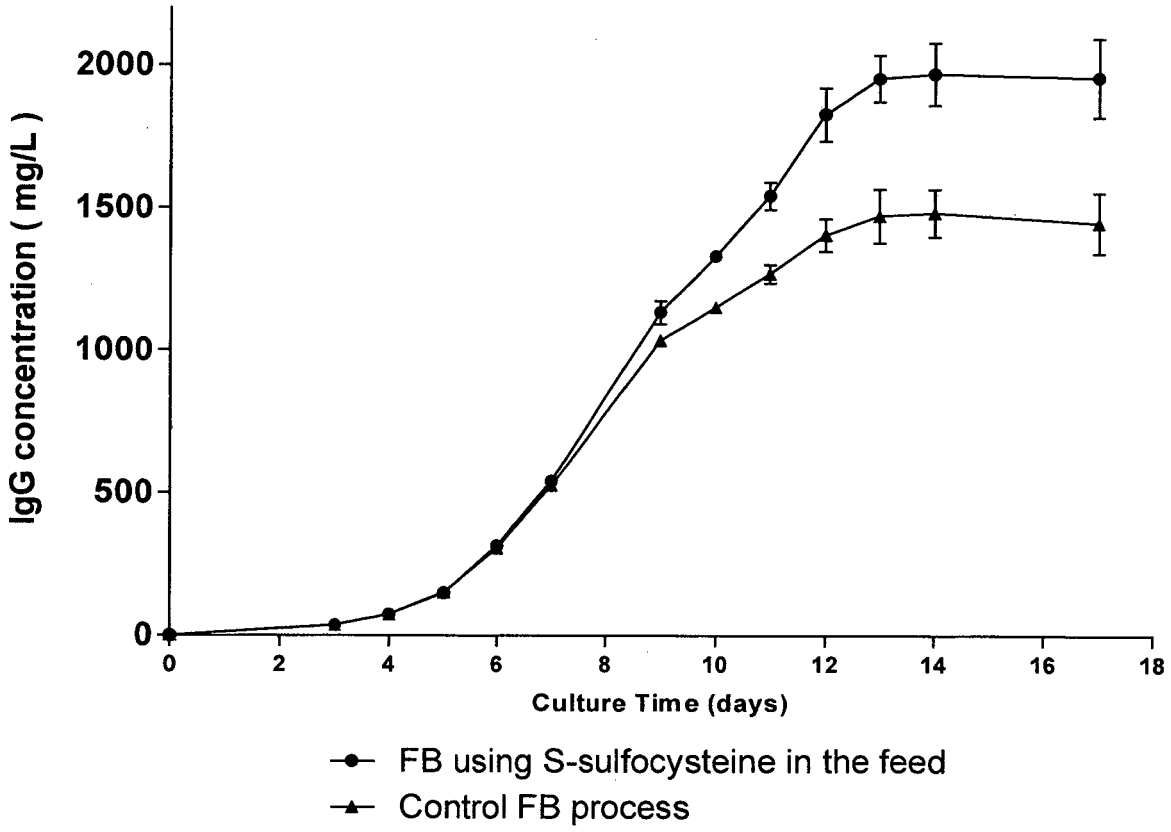

IgG concentration (mg/L)
2000
1500
1000
500
0
0
2
4
6
8
10
12
14
16
18
Culture Time (days)
FB using S-sulfocysteine in the feed
Control FB process

Fig. 2

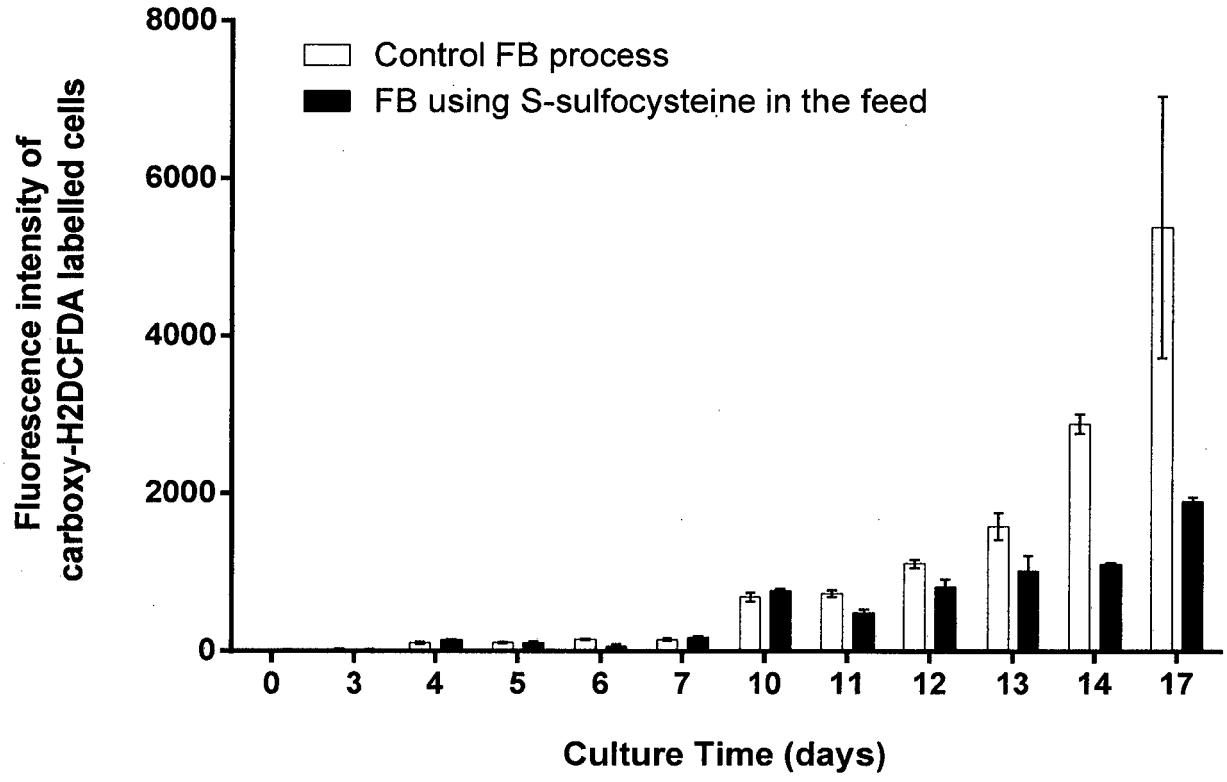
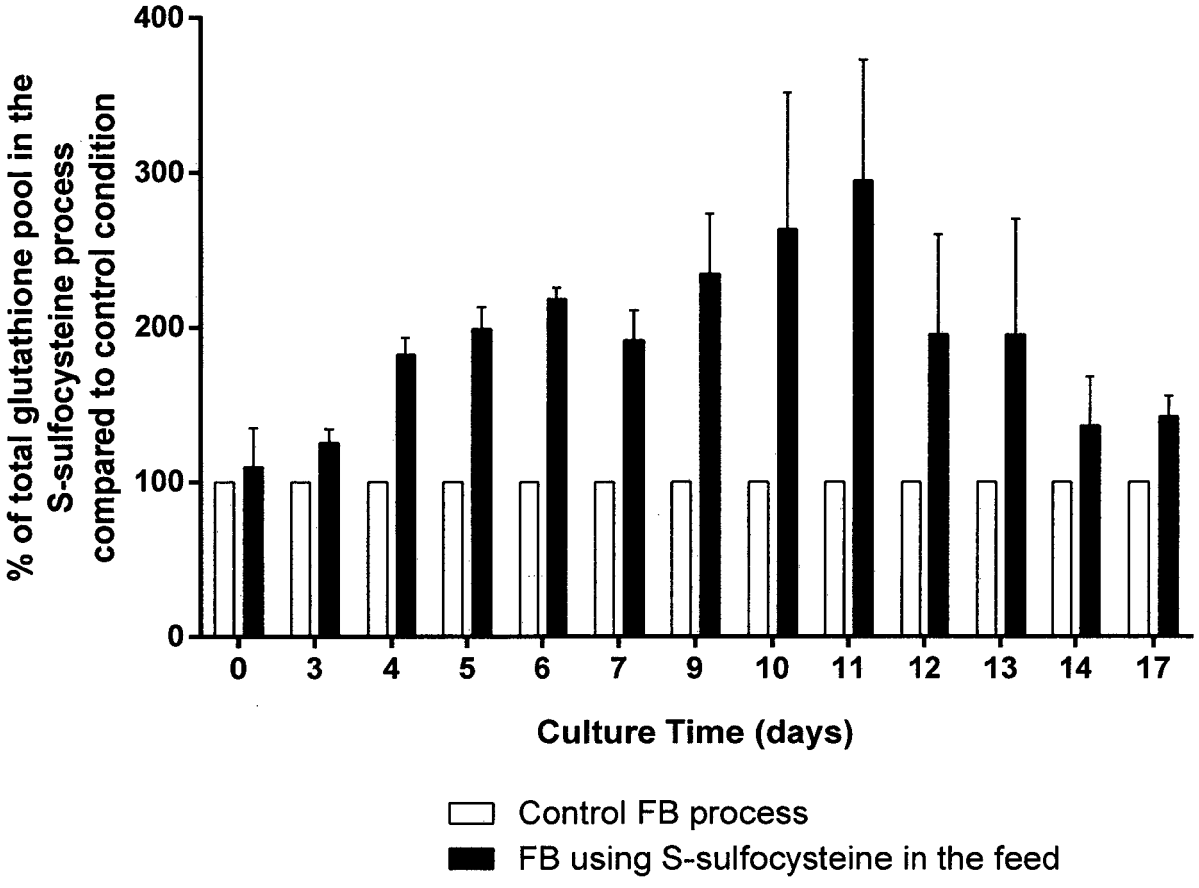

8000
6000
4000
2000
0
Control FB process
FB using S-sulfocysteine in the feed
Fluorescence intensity of carboxy-H2DCFDA labelled cells
0
3
4
5
6
7
10
11
12
13
14
17
Culture Time (days)

Fig. 3


% of total glutathione pool in the S-sulfocysteine process compared to control condition
400
300
200
100
0
0
3
4
5
6
7
9
10
11
12
13
14
17
Culture Time (days)
Control FB process
FB using S-sulfocysteine in the feed