

FIG.1

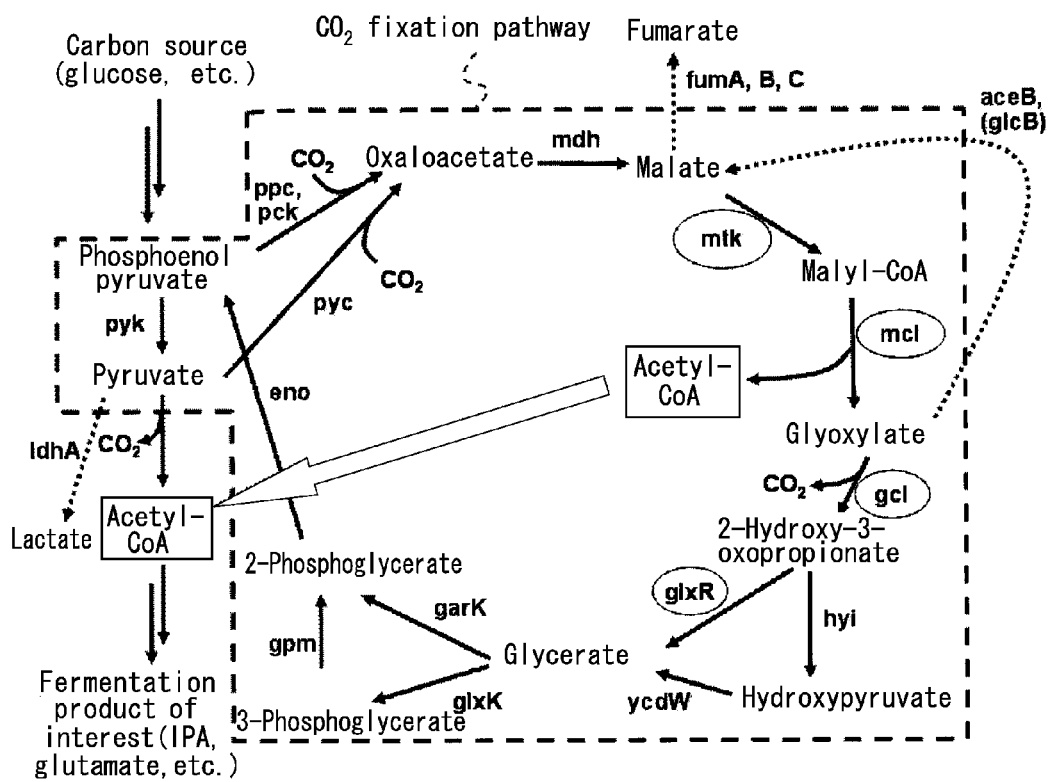


FIG. 2

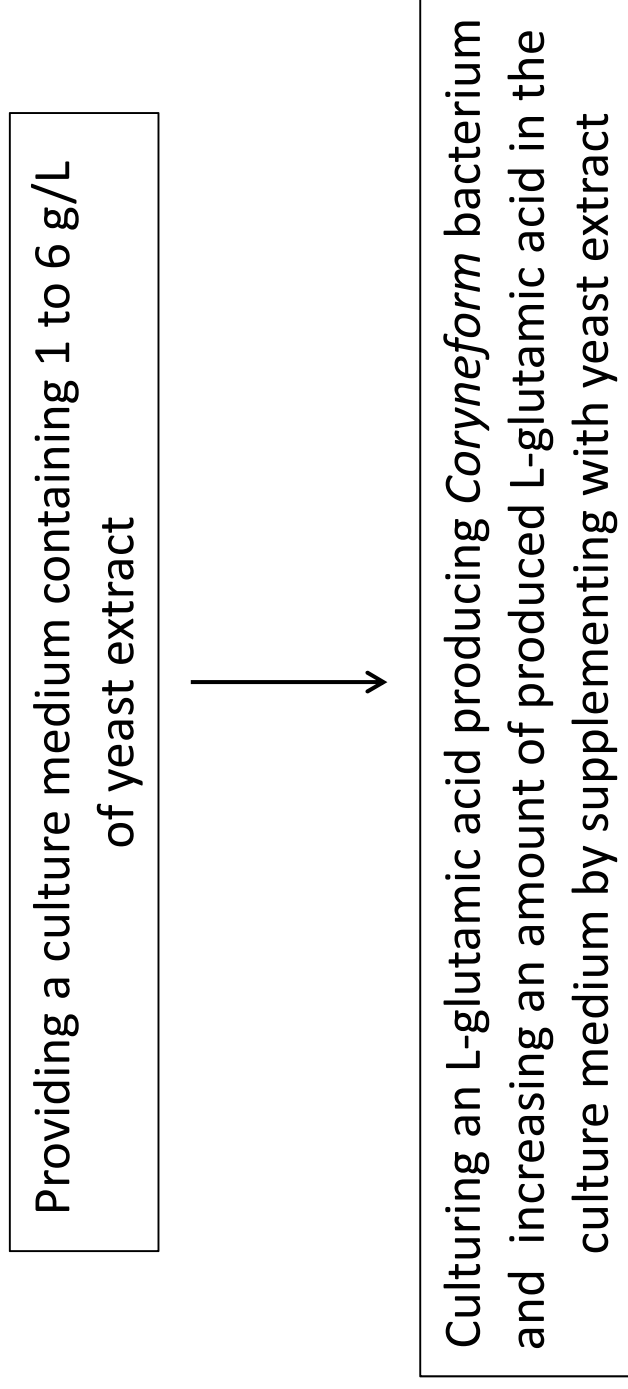


FIG. 3

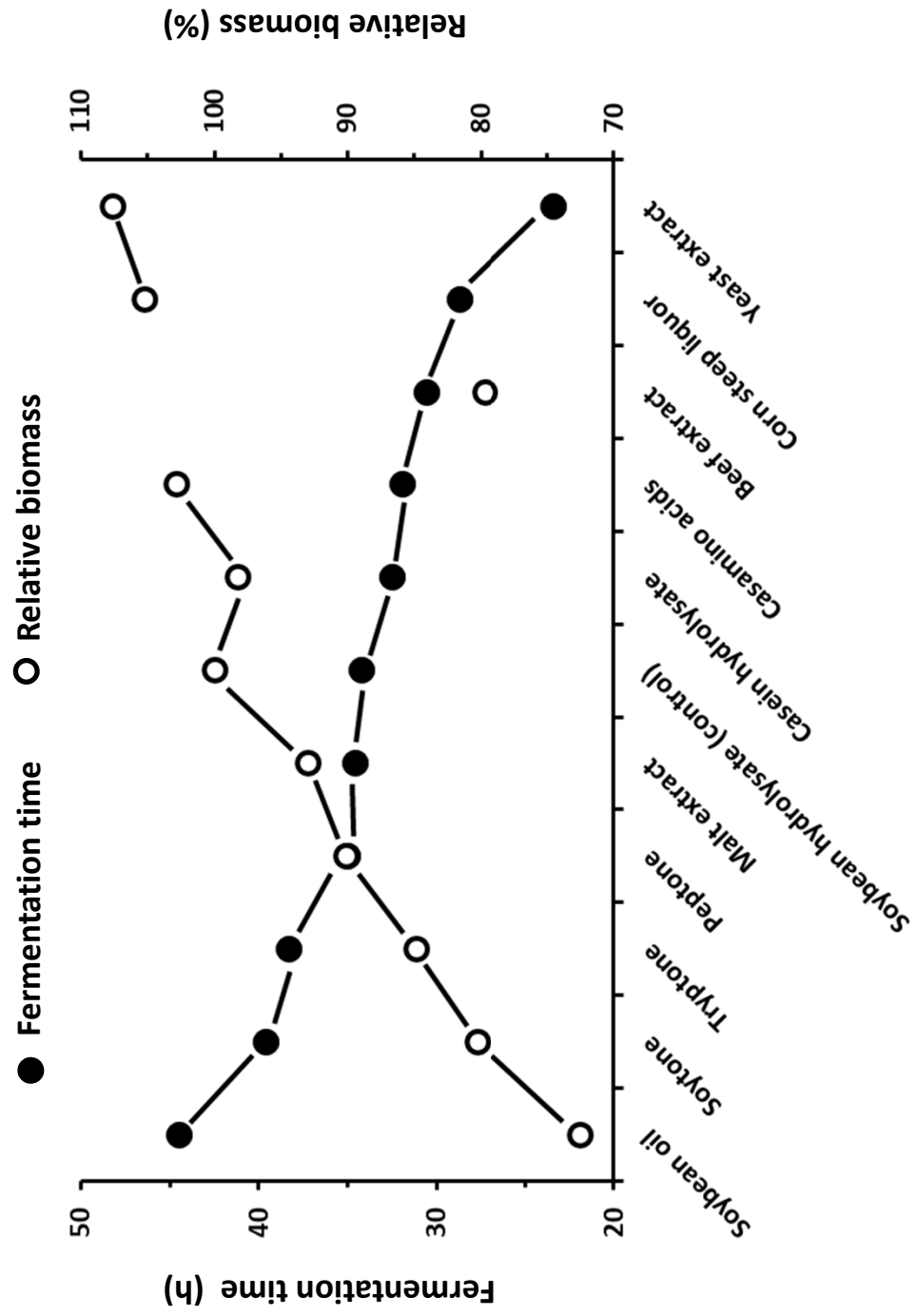


FIG. 4

Supplement	Amount added	Time (h)	Glutamic acid (g/L)	Glutamic acid productivity (g/L/h)	Glutamic acid carbon yield (%)	Glutamic acid + 2-KG carbon yield (%)	Acetic acid carbon yield (%)
Corn Steep Liquor	3 g/L	24.2	36.1	1.5	61.6	64.5	0.8
Yeast Extract		25.4	37.6	1.5	65.1	68.2	0.5
Beef Extract		25.6	36.2	1.4	62.1	65.4	1.0
Casein Hydrolysate		29.6	33.9	1.2	58.9	63.5	2.0
Peptone		31.6	35.2	1.1	60.4	65.6	2.9
No additional supplement (Control)	-	29.2	35.0	1.2	59.9	65.1	1.6

FIG. 5

Yeast extract supplemented	Time (h)	Glutamic acid (g/L)	Glutamic acid productivity (g/L/h)	Glutamic acid carbon yield (%)	Glutamic acid + 2-KG carbon yield (%)	Acetic acid carbon yield (%)
1 g/L	32.7	38.0	1.2	65.3	68.1	0.9
3 g/L	29.9	38.0	1.3	65.5	68.4	0.4
4 g/L	32.2	38.9	1.2	67.0	69.0	0.5
6 g/L	32.3	39.9	1.2	68.1	69.9	0.5
8 g/L	35.7	39.9	1.1	69.0	70.8	0.2
0 g/L (Control)	33.7	34.8	1.0	59.8	64.2	1.5

FIG. 6

