

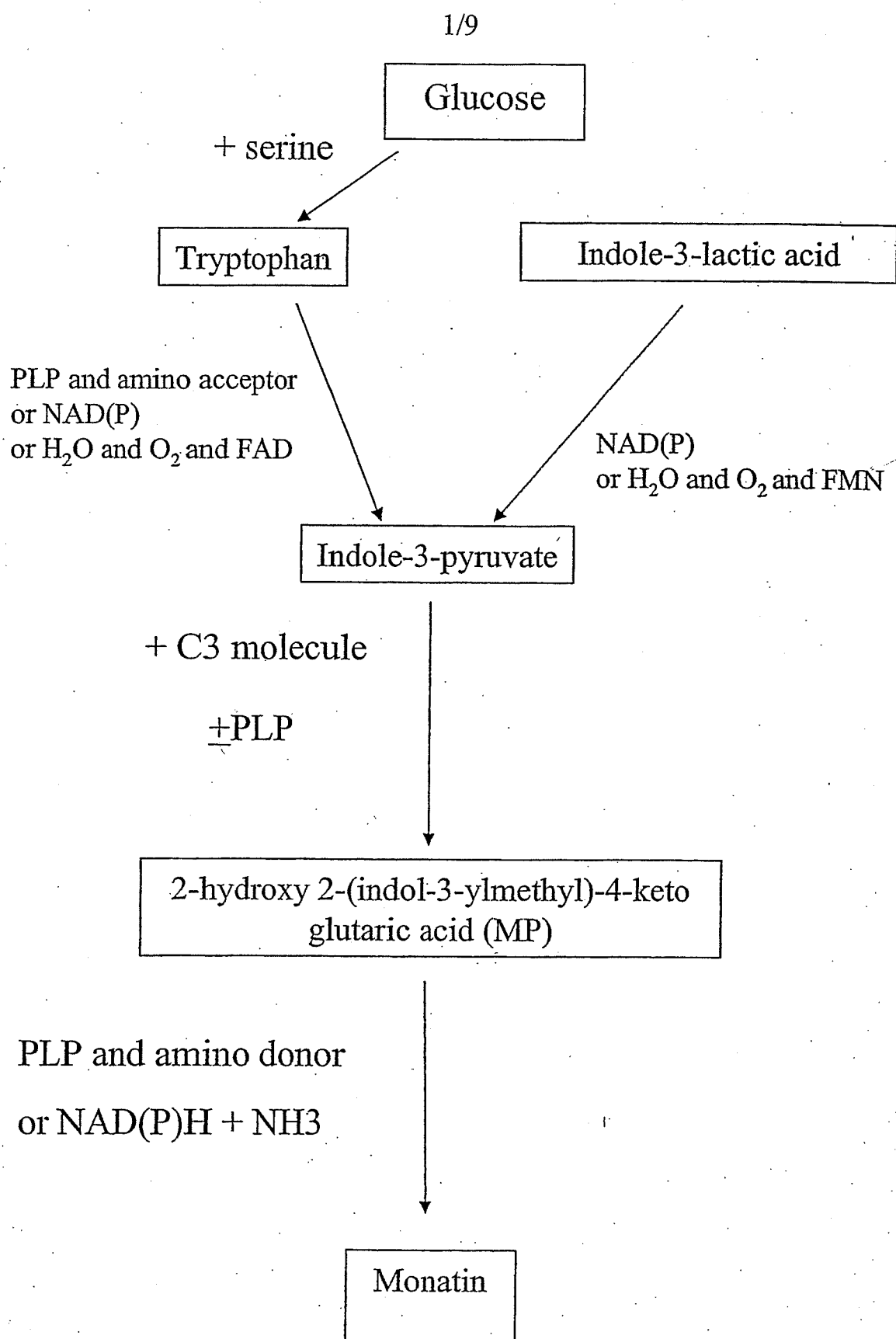


FIG. 1

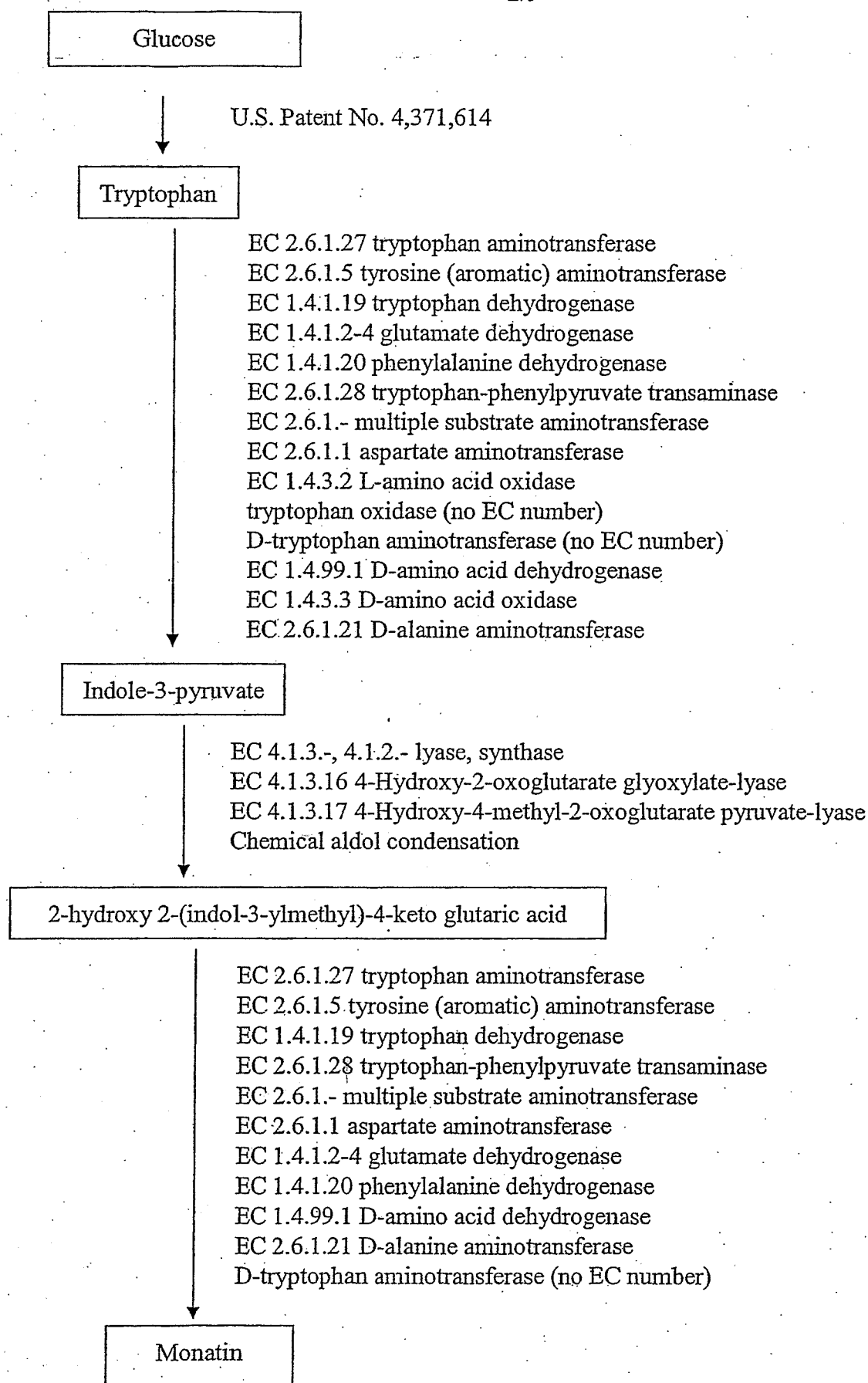


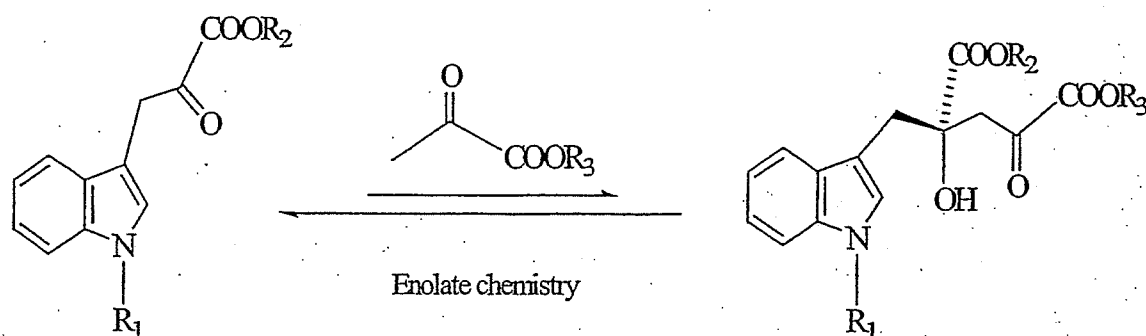
FIG 2

FIG. 3

Indole-3-lactic acid

EC 1.1.1.110 indolelactate dehydrogenase
 EC 1.1.1.222 R-4-hydroxyphenyllactate dehydrogenase
 EC 1.1.1.237 3-(4)-hydroxyphenylpyruvate reductase
 EC 1.1.1.27, 1.1.1.28, 1.1.2.3 lactate dehydrogenase
 EC 1.1.1.111 (3-imidazol-5-yl) lactate dehydrogenase
 EC 1.1.3.- lactate oxidase
 Chemical oxidation

Indole-3-pyruvate

FIG. 4

R_1 = Boc, Cbz, etc.

R_2 and R_3 = Alkyl, Aryl, etc.

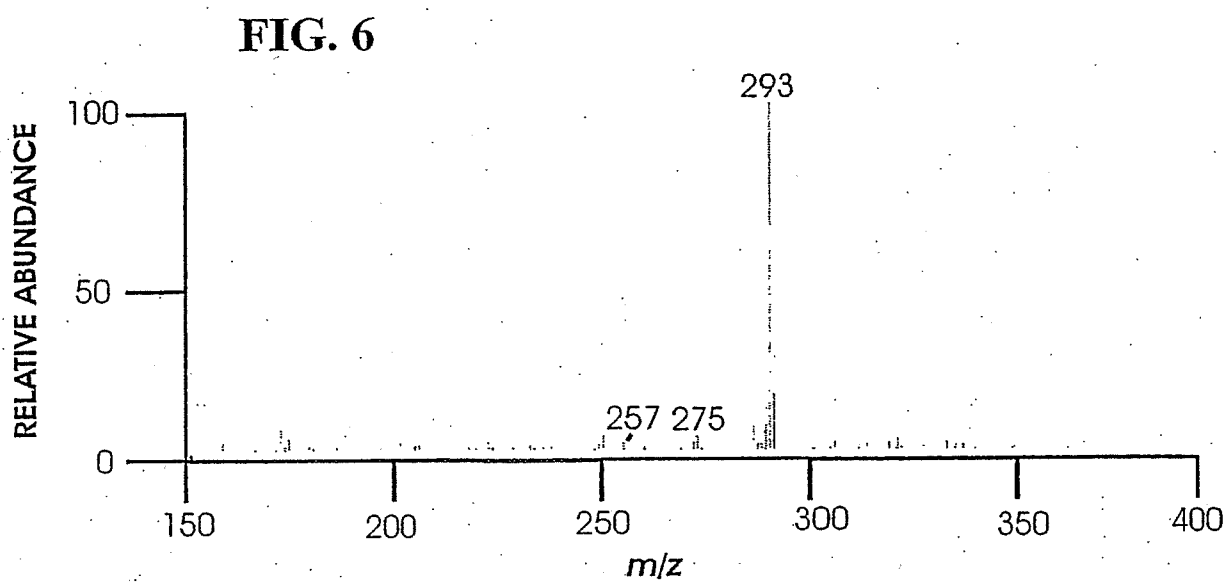
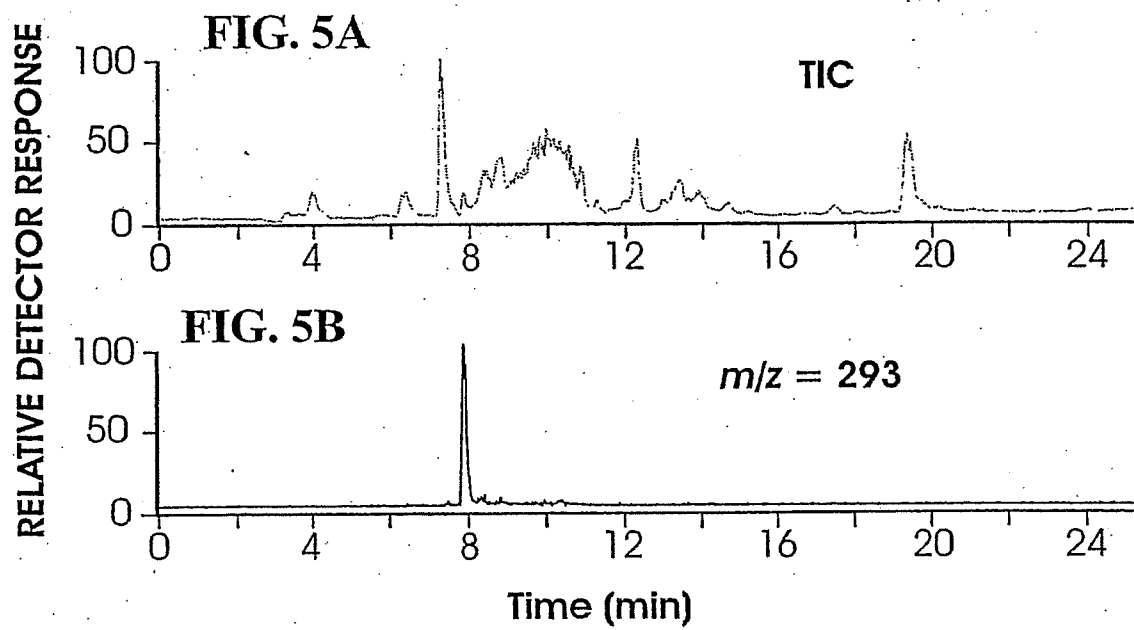


FIG. 7A

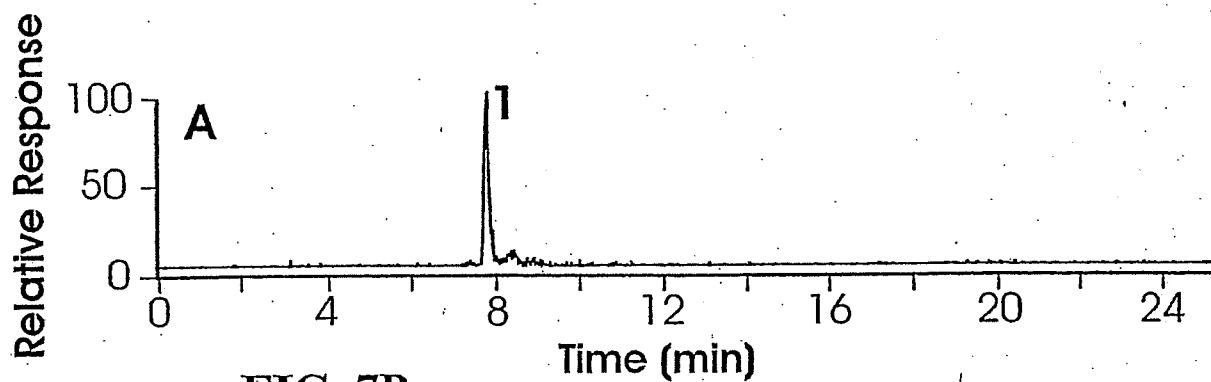


FIG. 7B

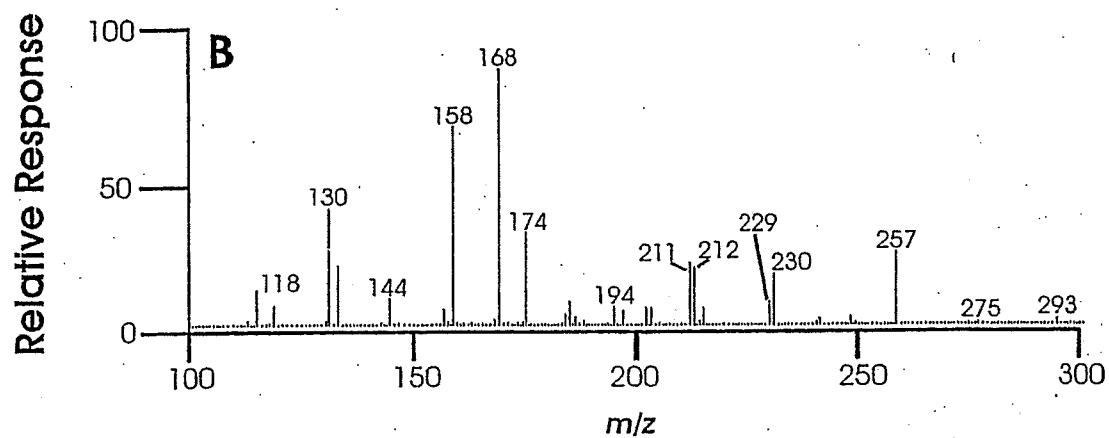
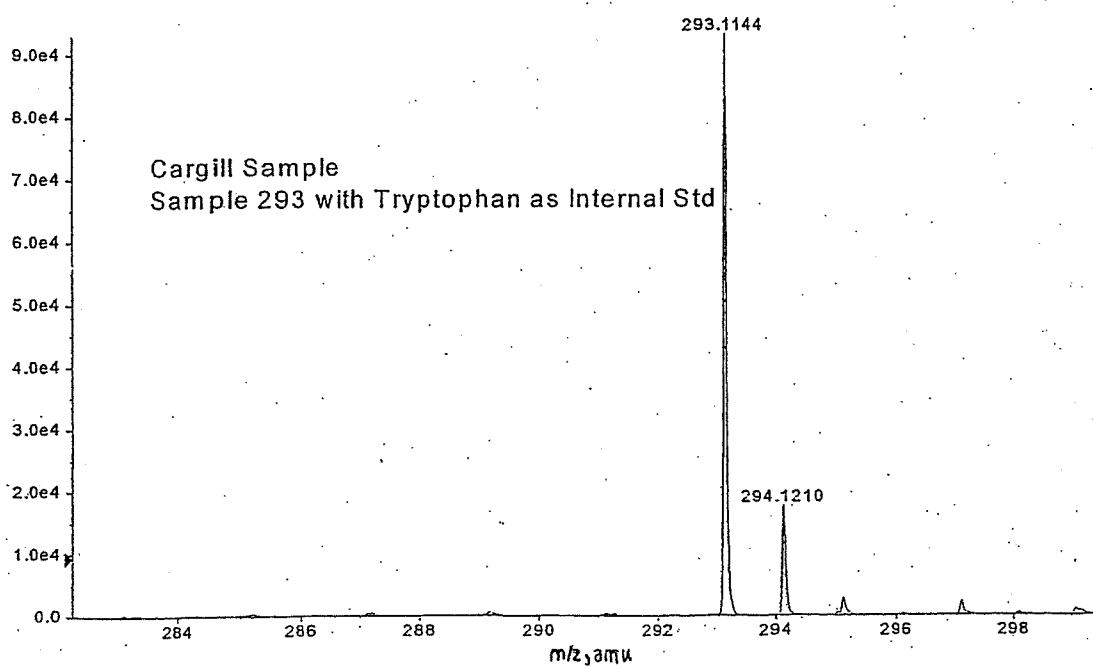


FIG. 8

+TOF MS: 124 MCA scans from Sample 7 (293jld_with Tryptophan) of car0709a.wif...
a=3.56970808537750280e-004, l0=-1.24626879588351580e+002 R;

Max. 9.3e4 counts.



VB342

07100202a

1: Scan ES+
205
1.21e8

FIG. 9A

07100201a

1: Scan ES+
205
1.24e8

FIG. 9B

07100203a

1: Scan ES+
293
1.02e8

FIG. 9C

■ %

Time

FIG. 10

Peak height divided by OD600

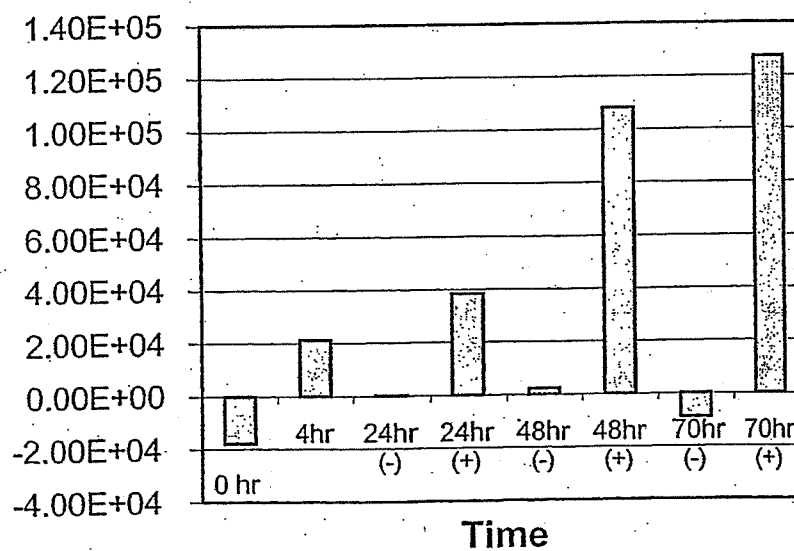


FIG. 11

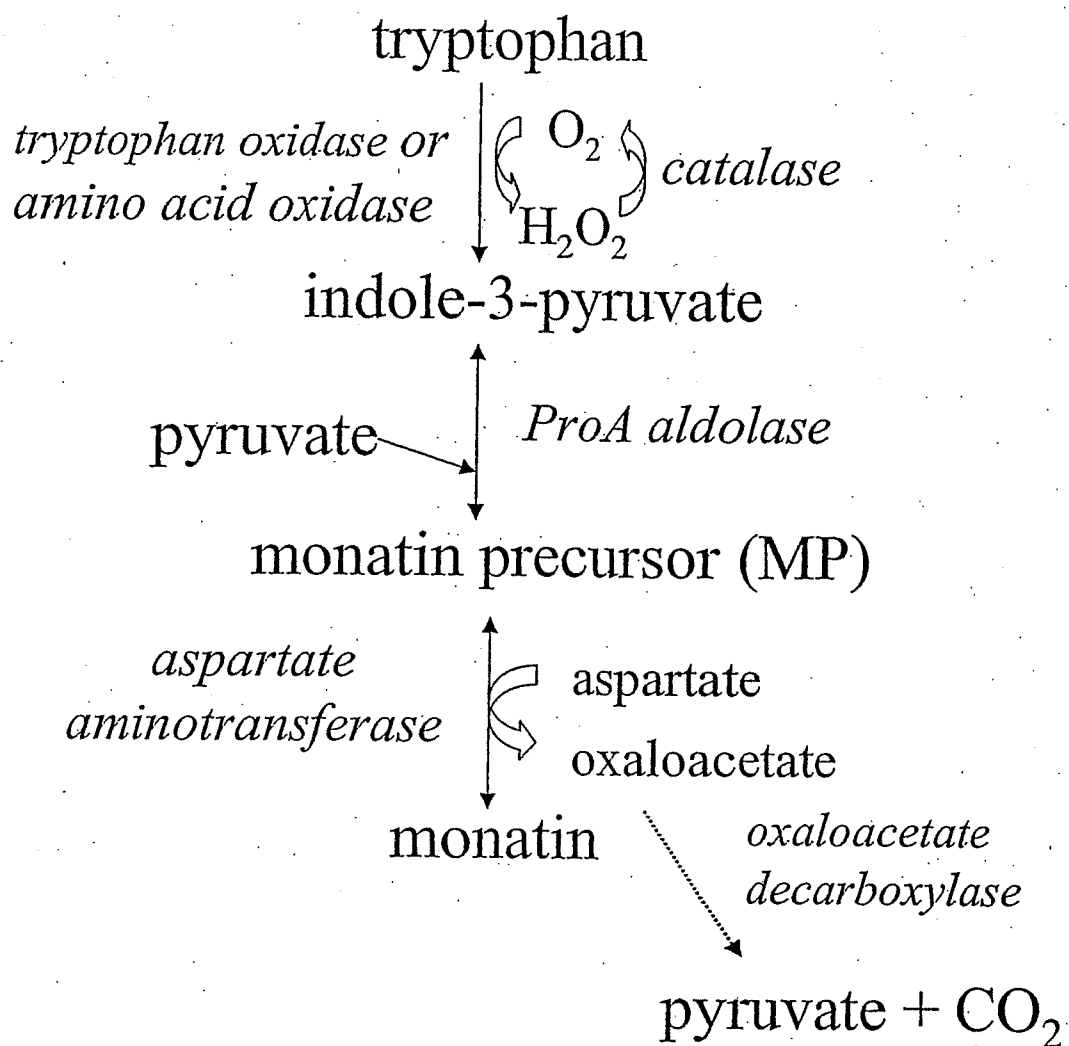


FIG. 12

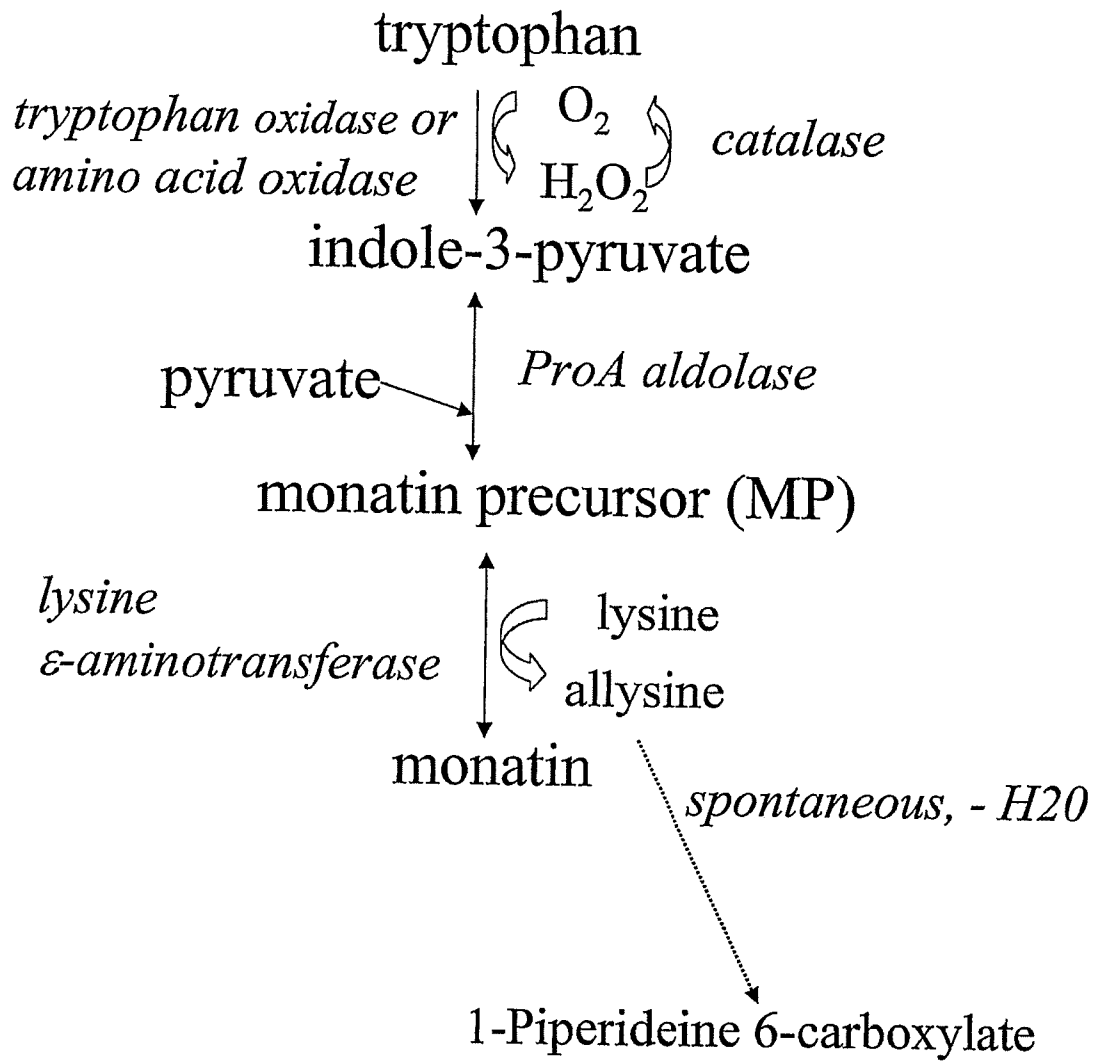


FIG. 13

