

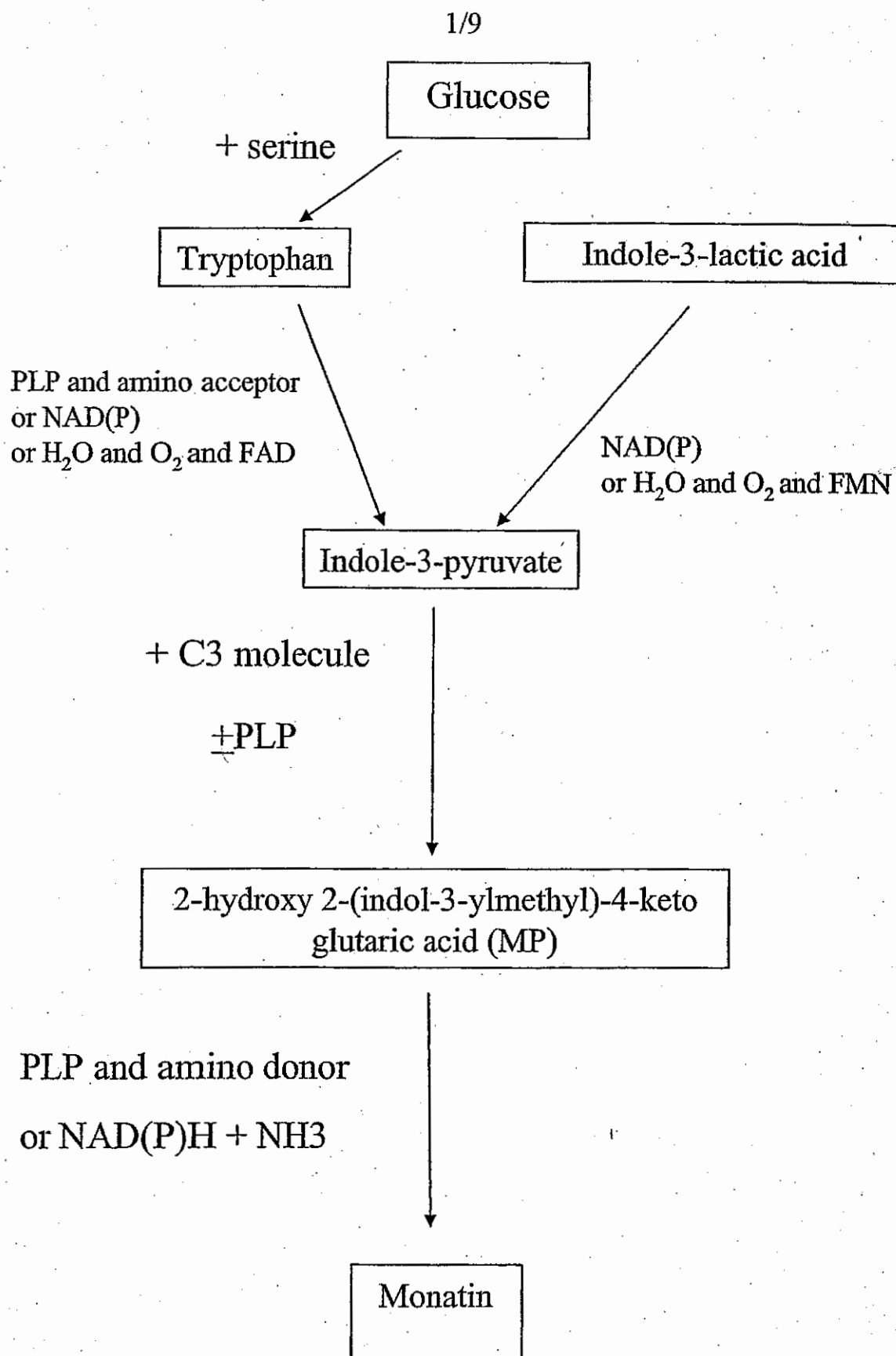


FIG. 1

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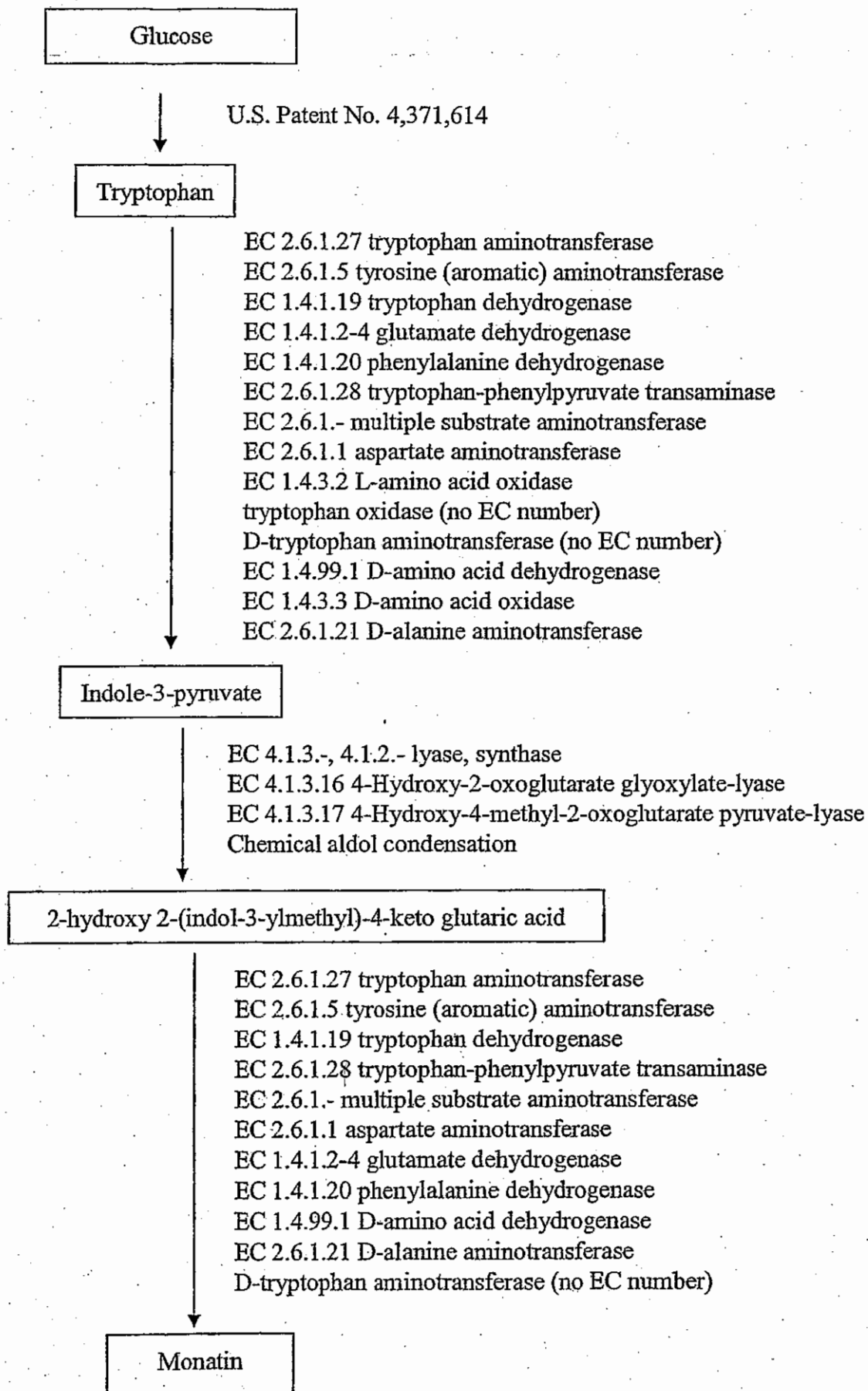


FIG. 2

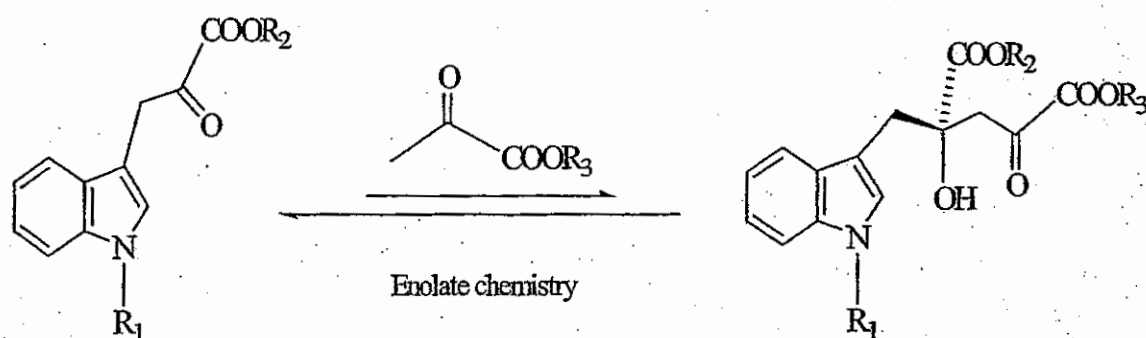
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FIG. 3

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.

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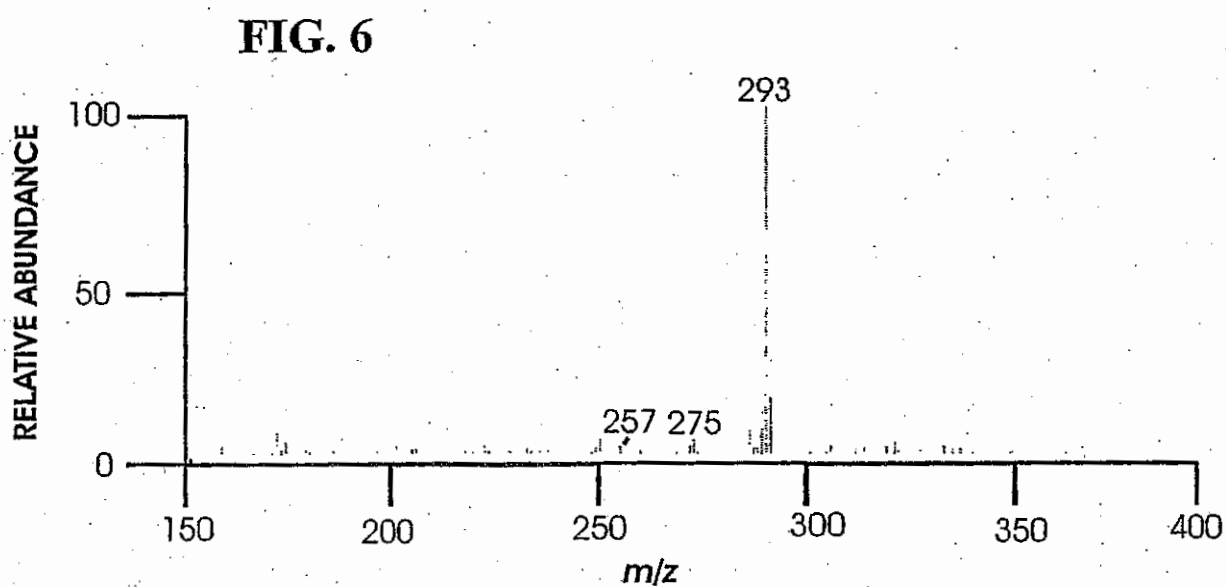
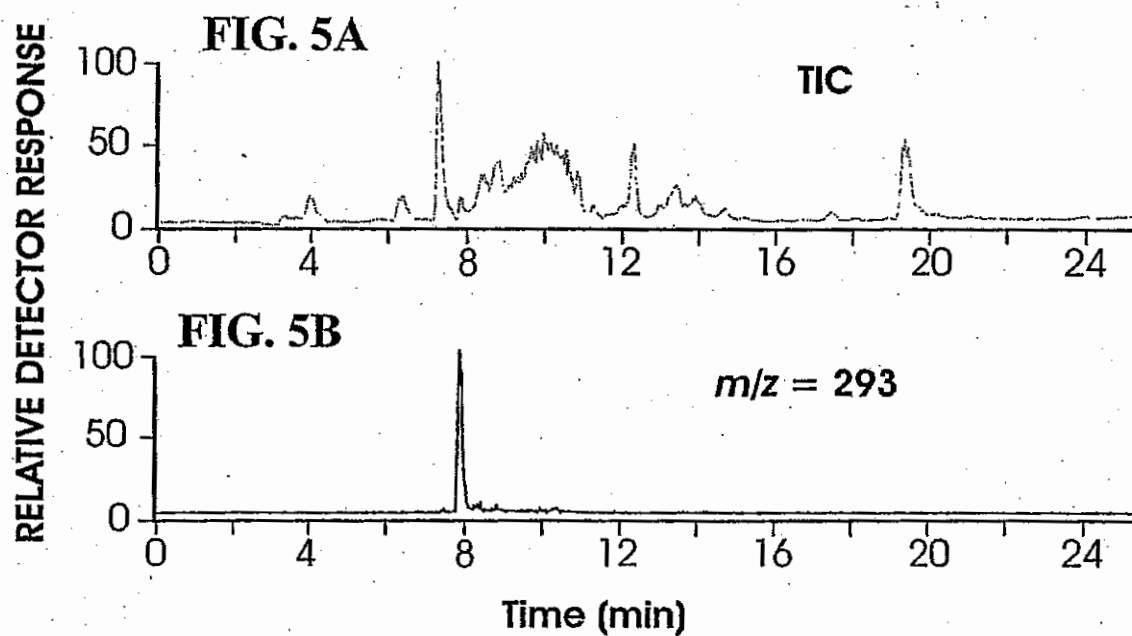


FIG. 7A

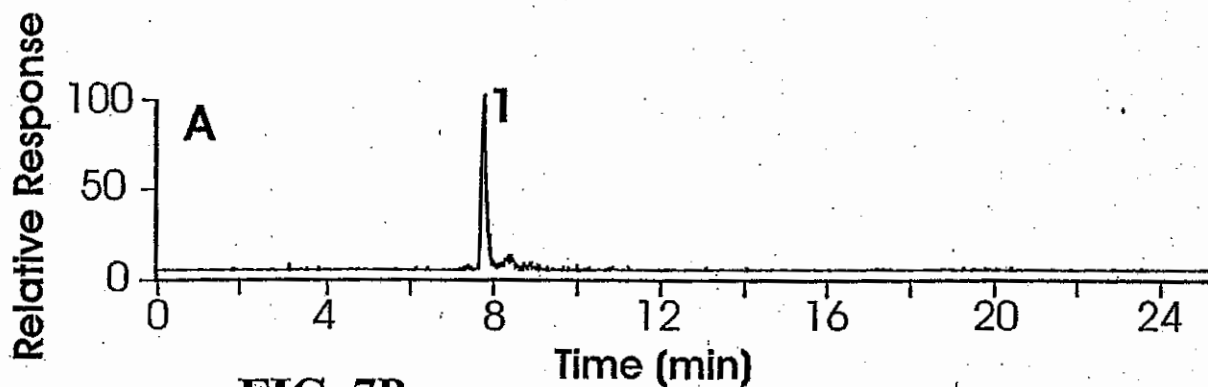


FIG. 7B

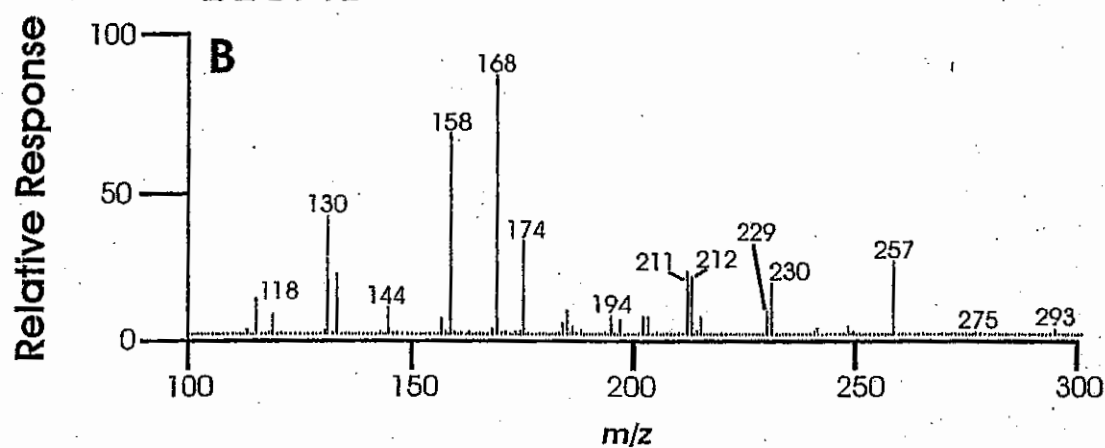
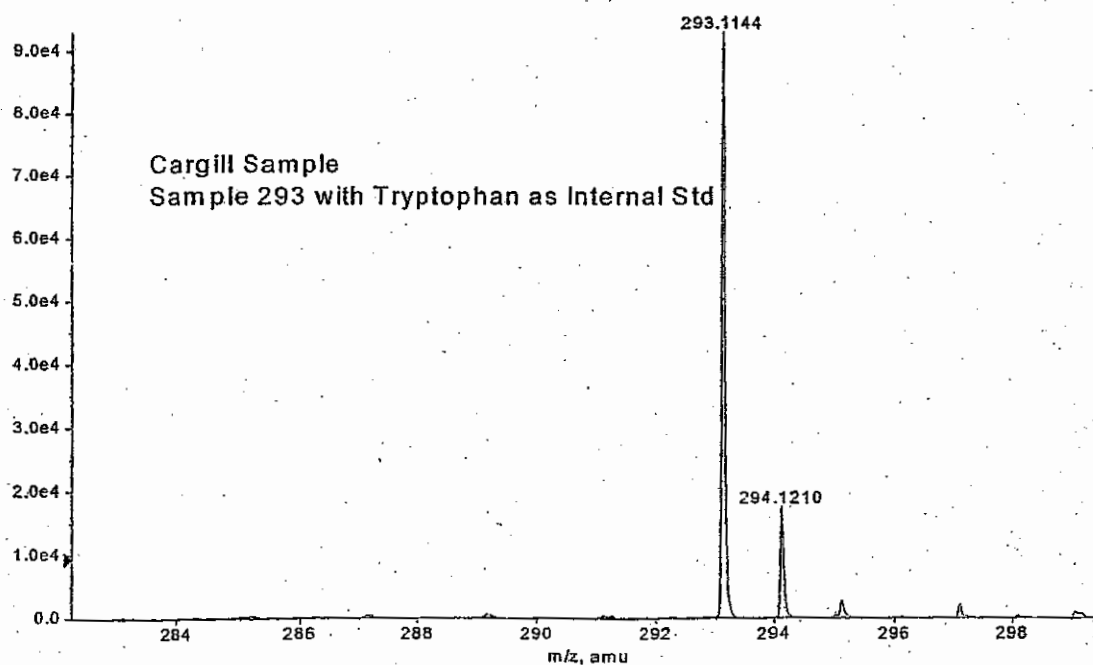


FIG. 8

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

Max. 9.3e4 counts.



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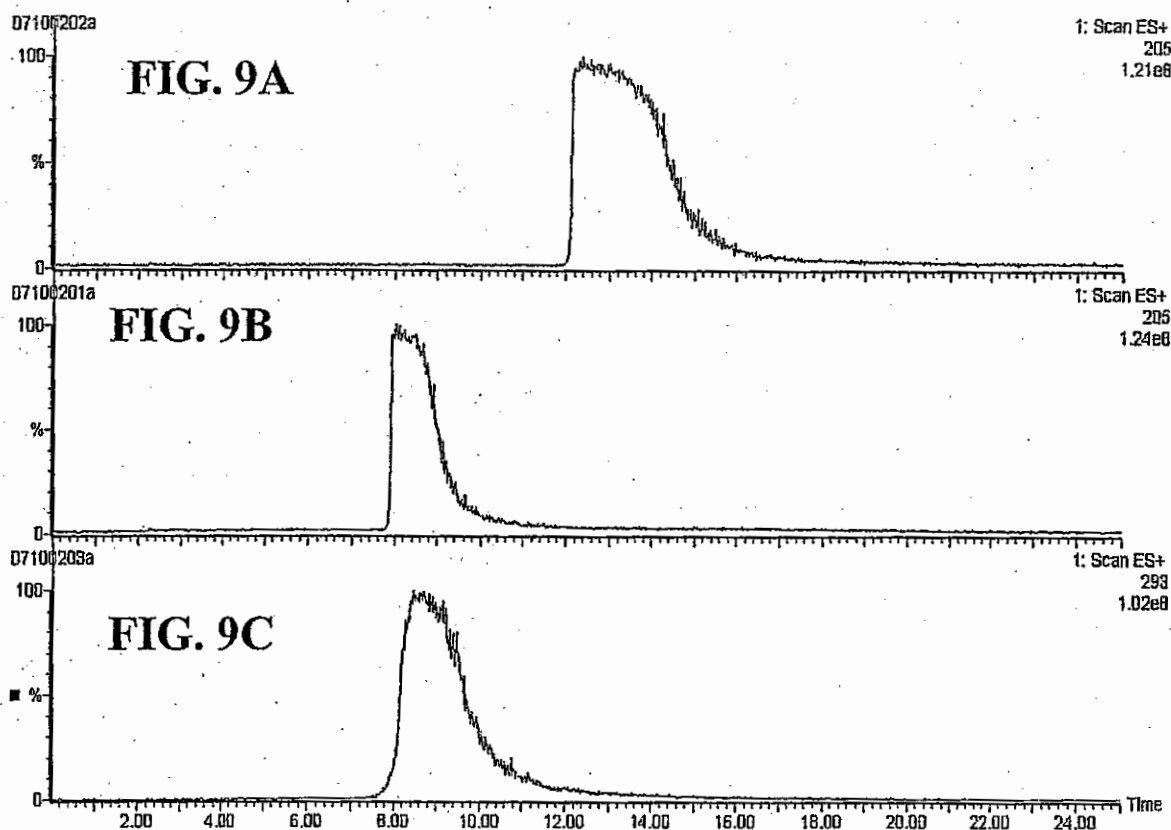
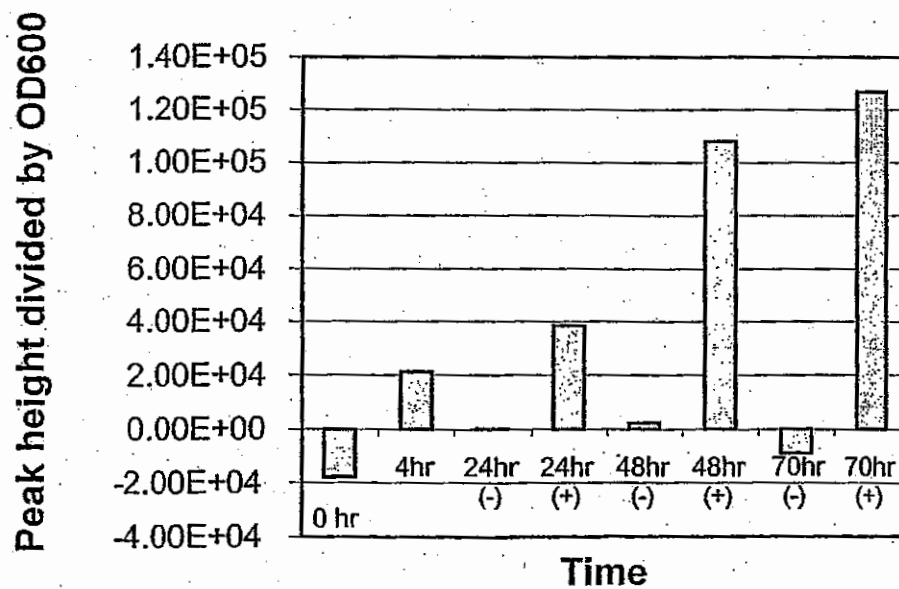


FIG. 10



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FIG. 11

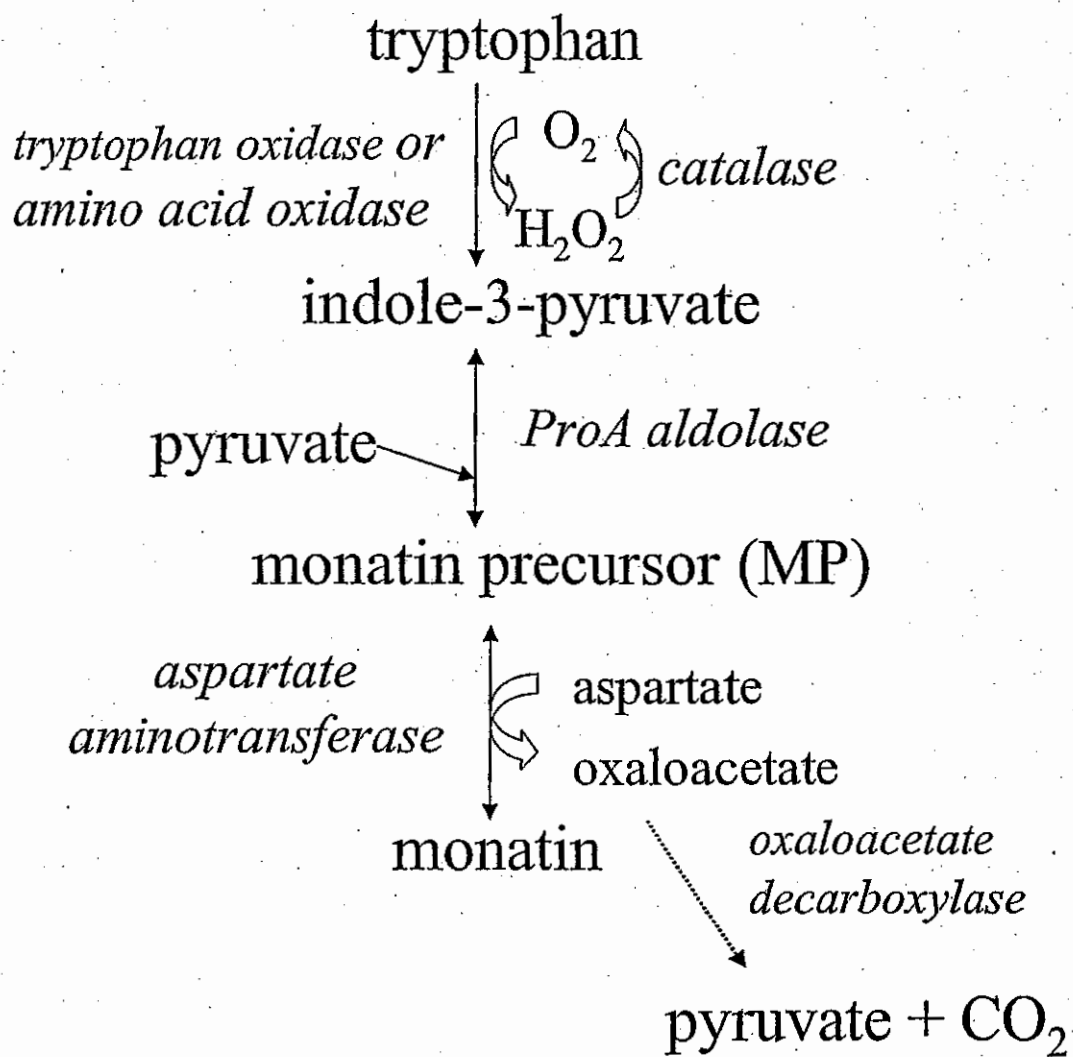
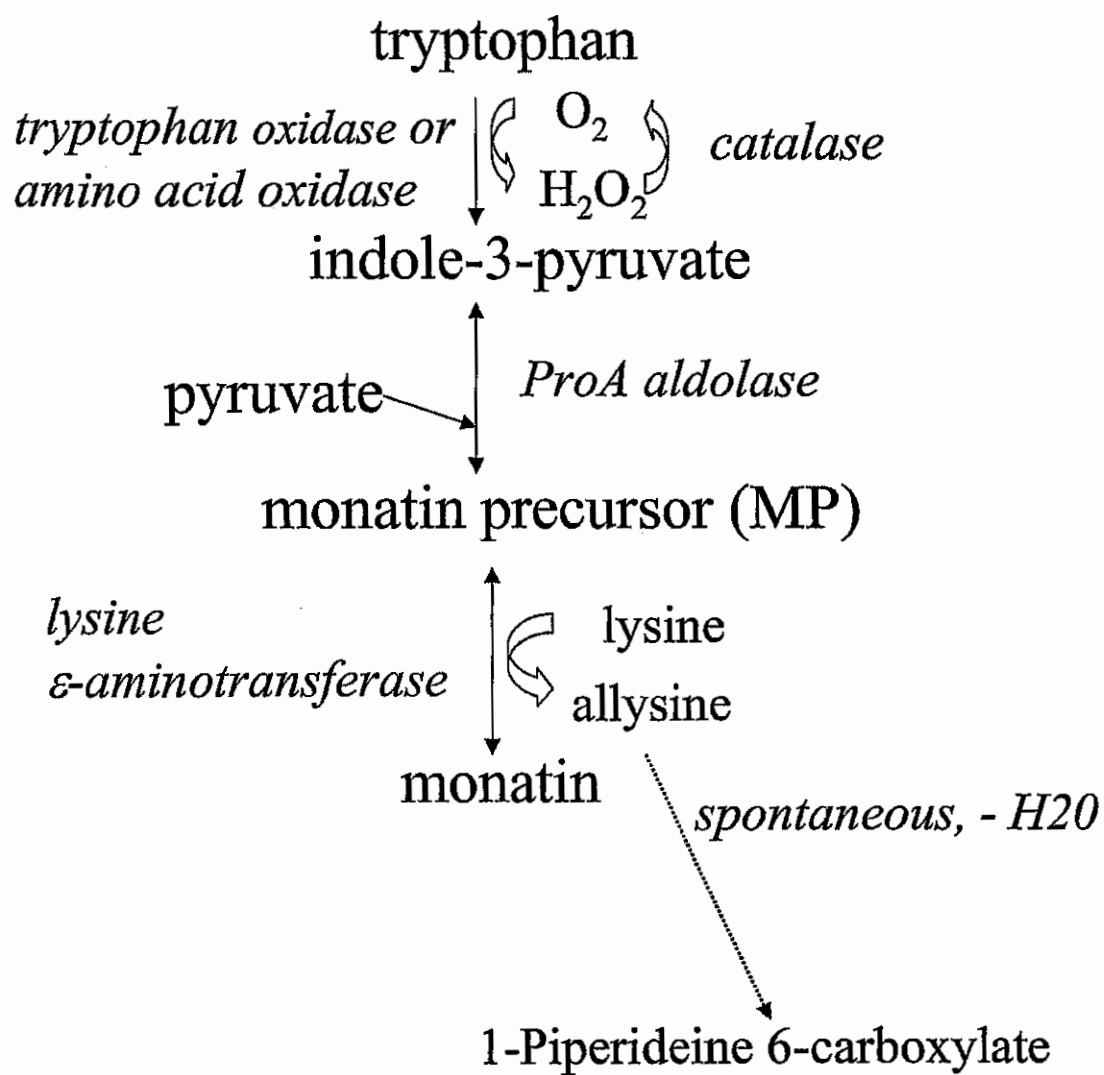


FIG. 12



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FIG. 13

