

1 / 14

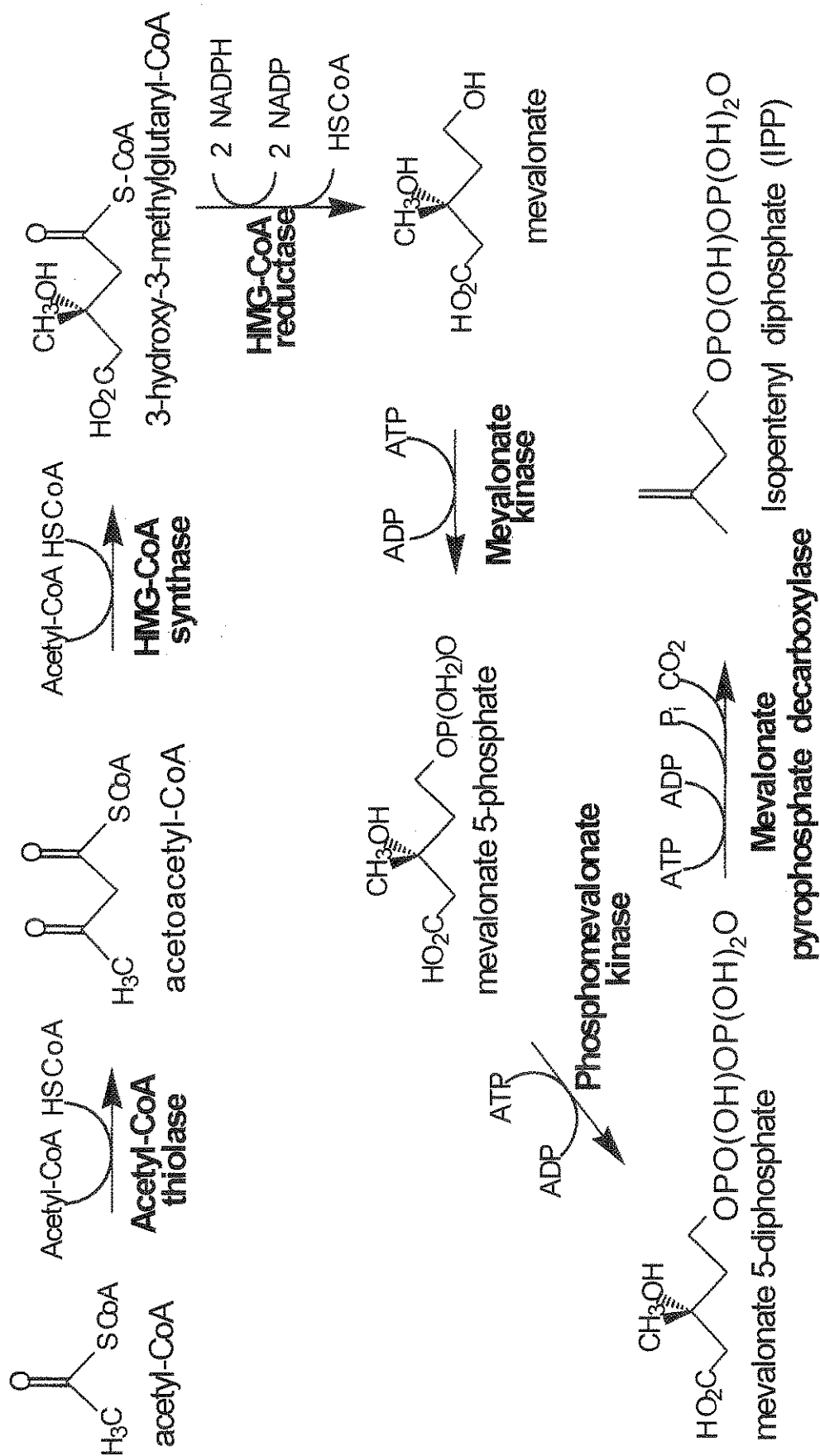


FIG. 1

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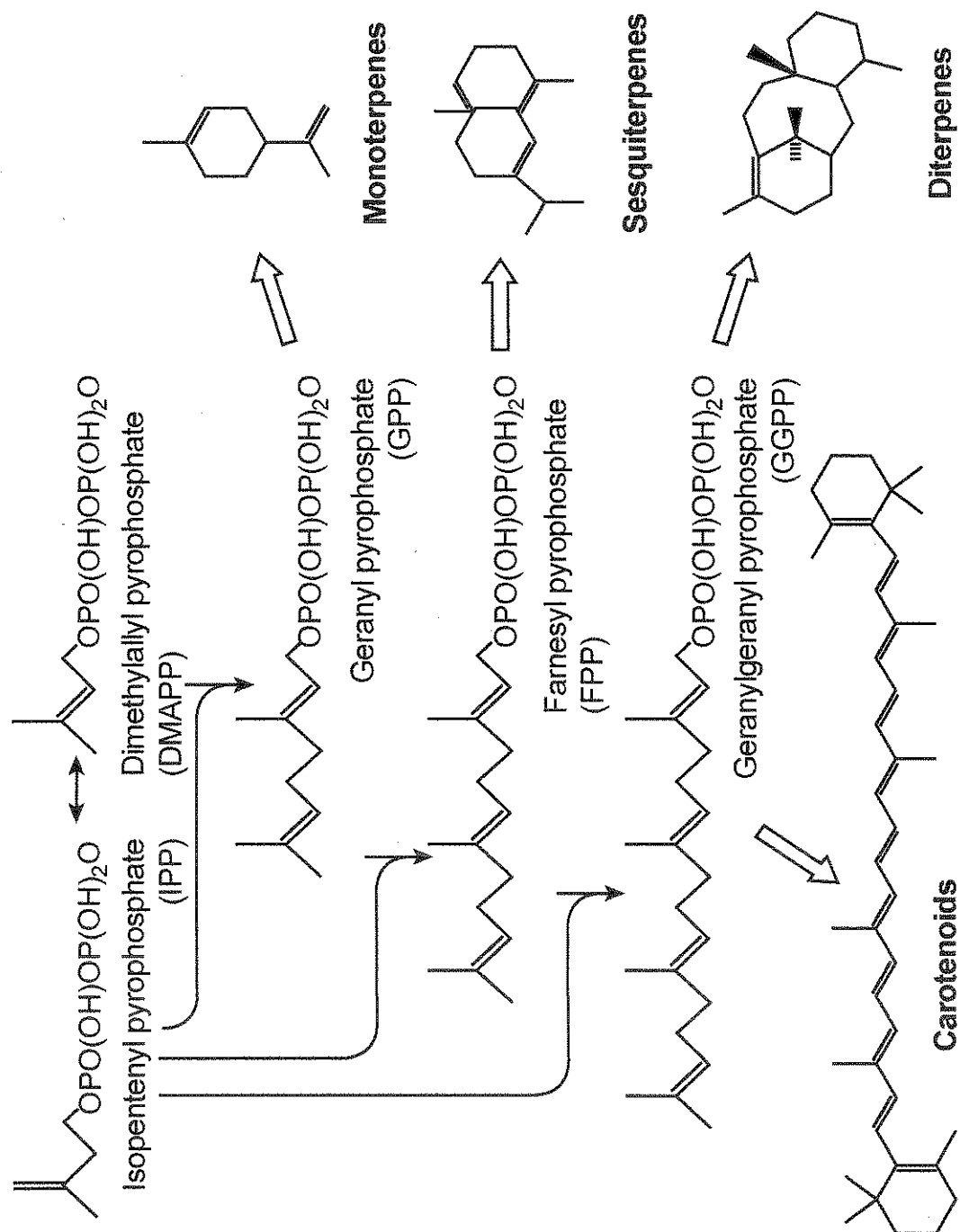


FIG. 2

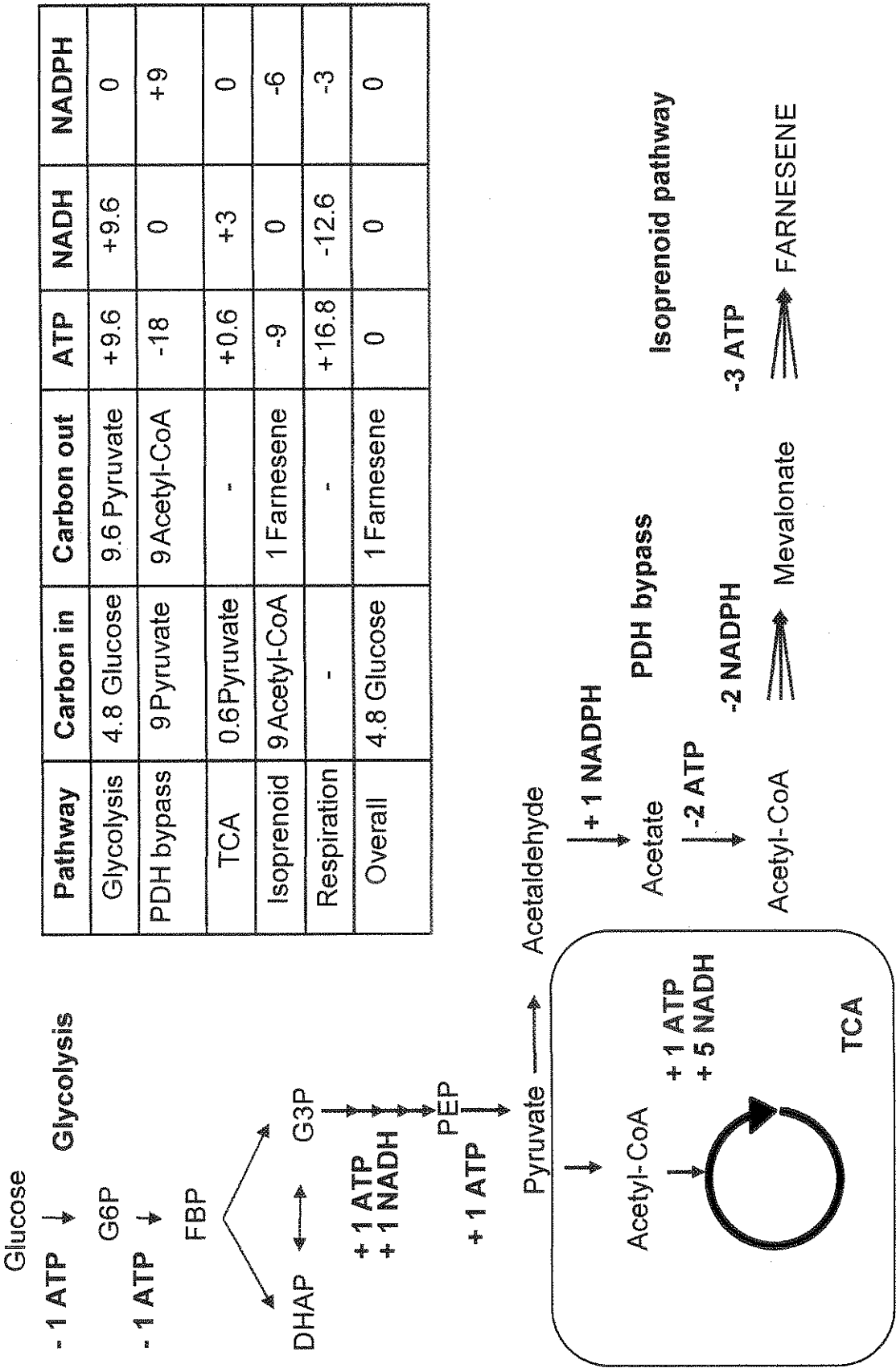


FIG. 3

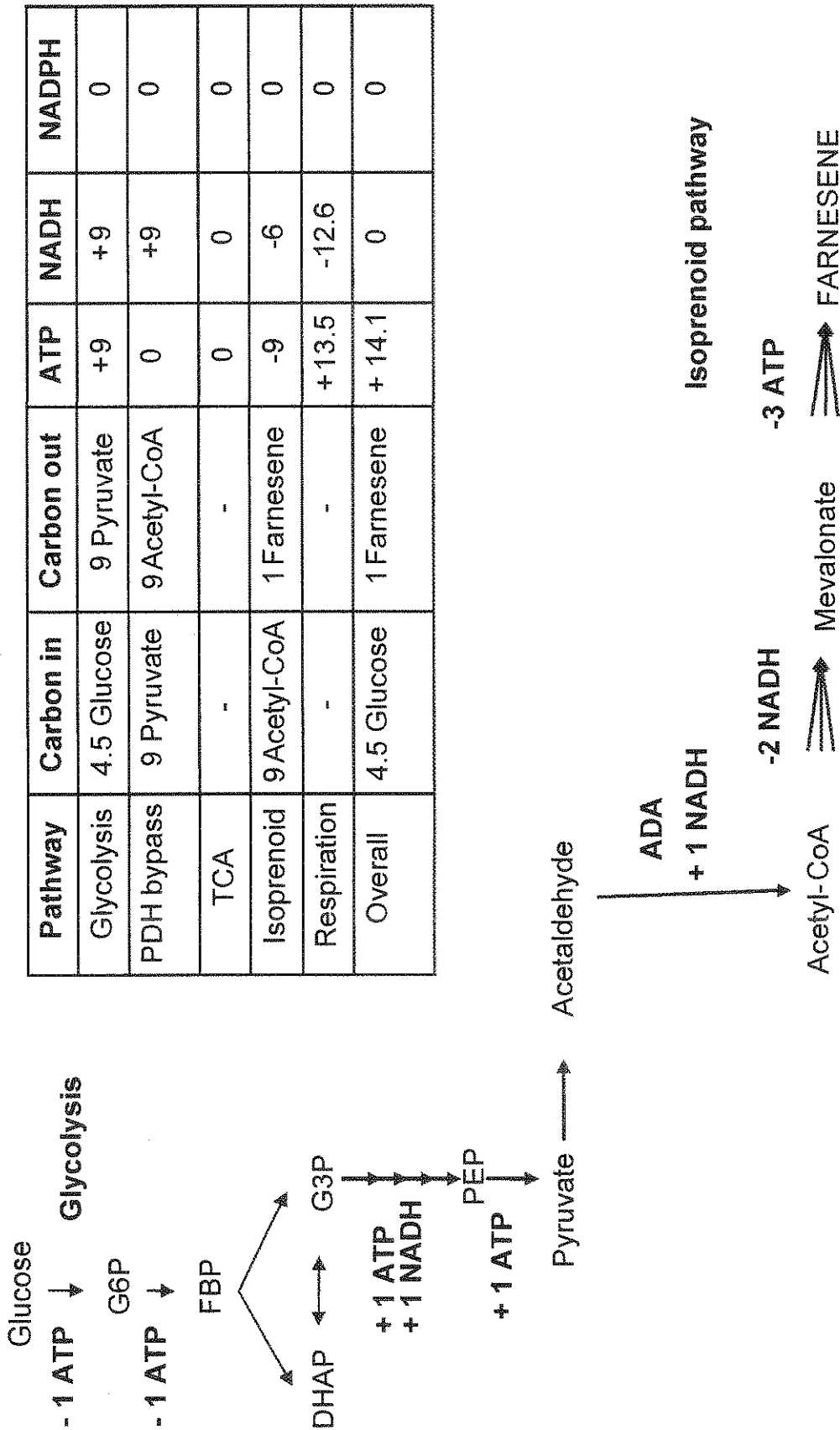


FIG. 4

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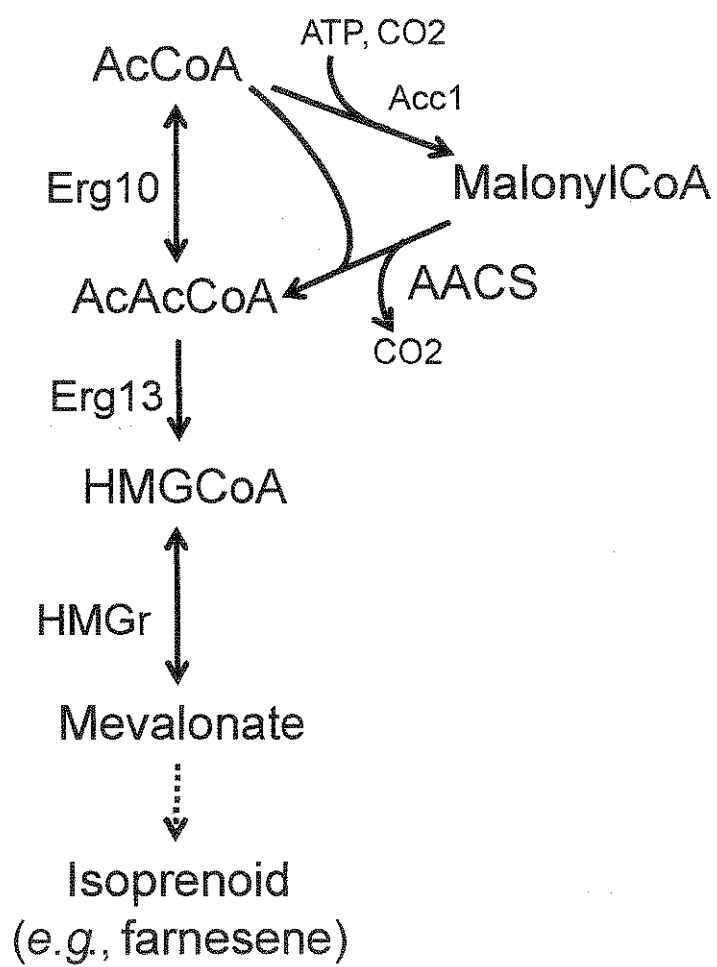
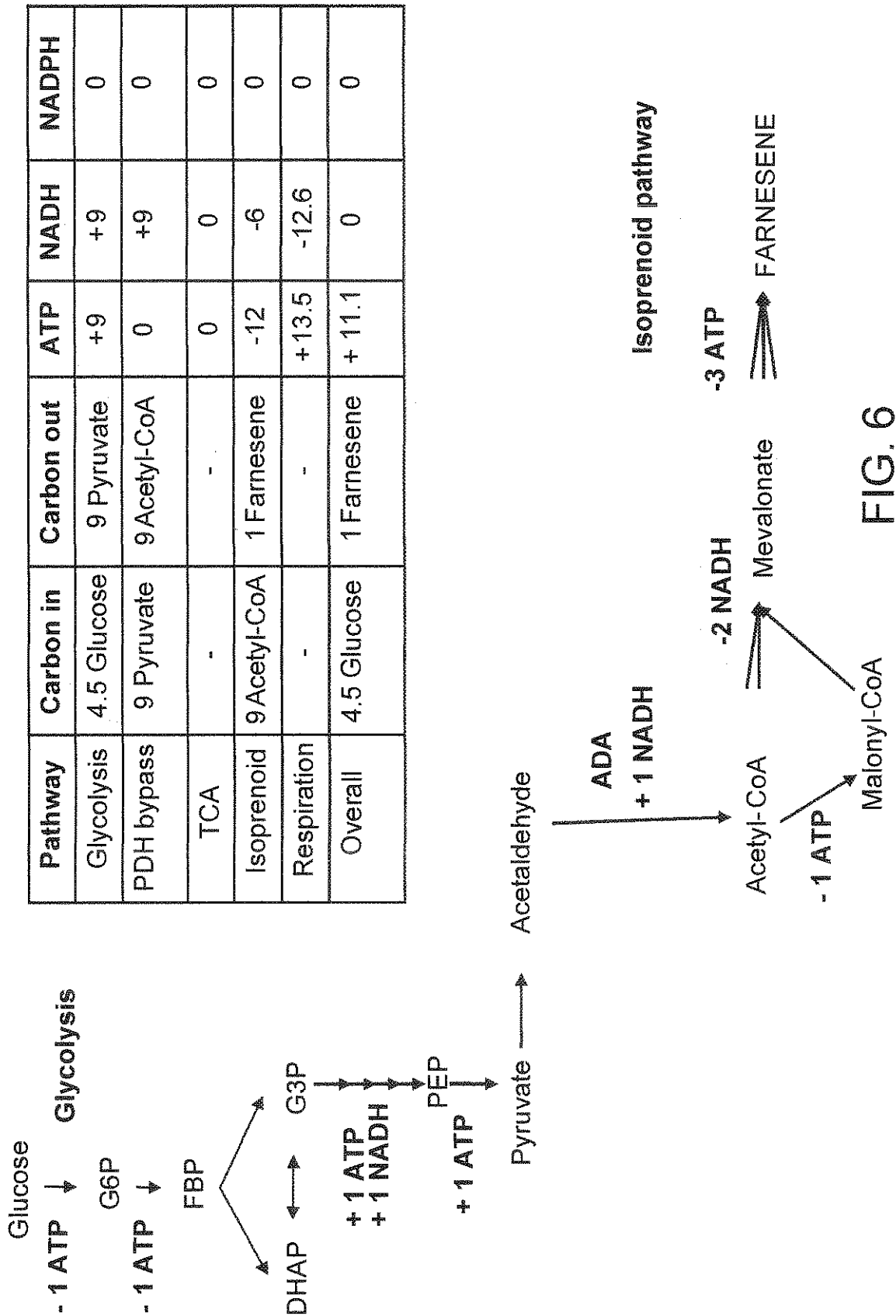


FIG. 5



Pathway	Carbon in	Carbon out	ATP	NADH	NADPH
Glycolysis	3.8 Glucose	4.9 Pyruvate	+4.9	+4.9	0
PDH bypass	4.9 Pyruvate	4.9 Acetyl-CoA	0	+4.9	0
PK/PTA	1.6 F6P	4.9 Acetyl-CoA	0	0	0
Isoprenoid	9 Acetyl-CoA	1 Farnesene	-9	-6	0
Respiration	-	-	+4.2	-3.8	0
Overall	3.8 Glucose	1 Farnesene	0	0	0

Max Stoichiometric Yield = 29.8 wt%

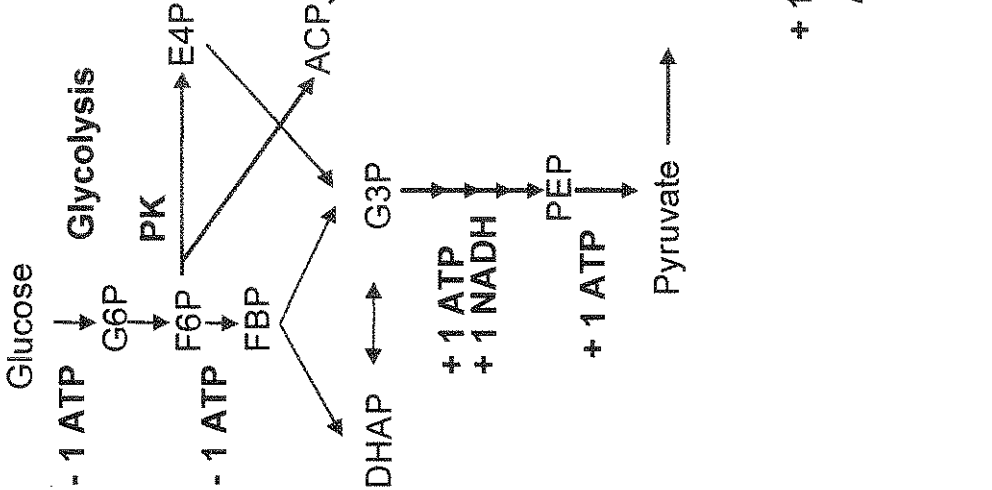


FIG. 7

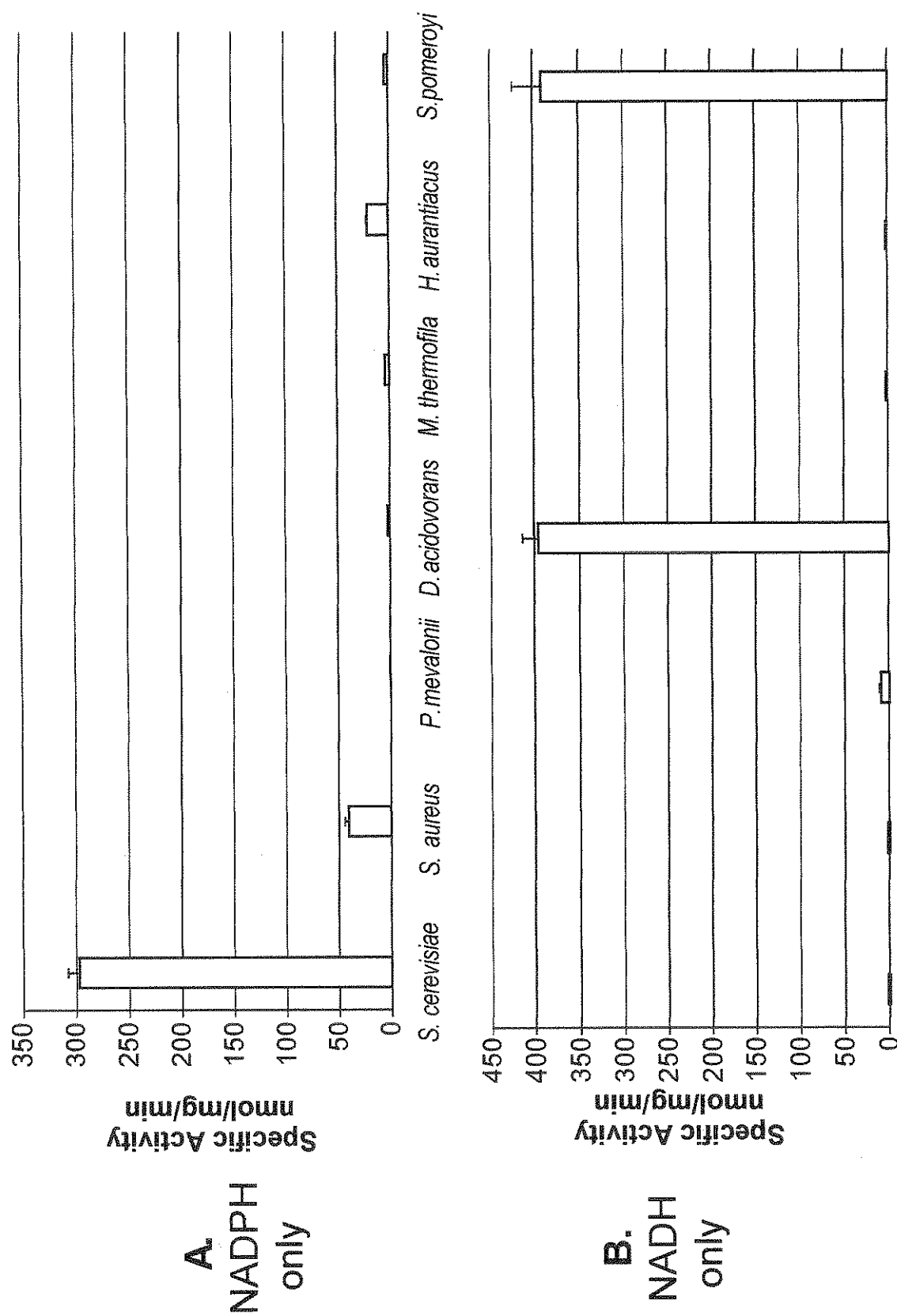


FIG. 8

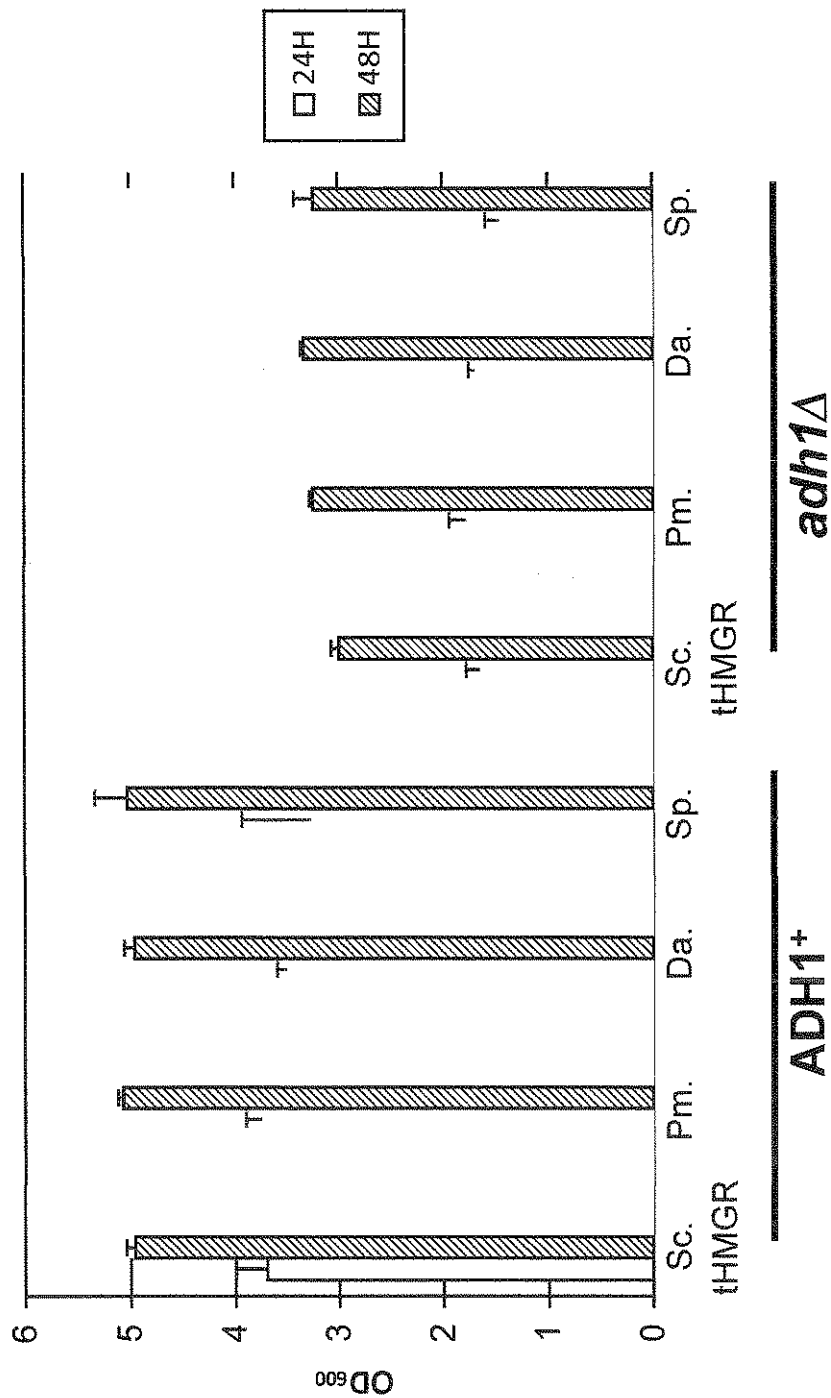


FIG. 9

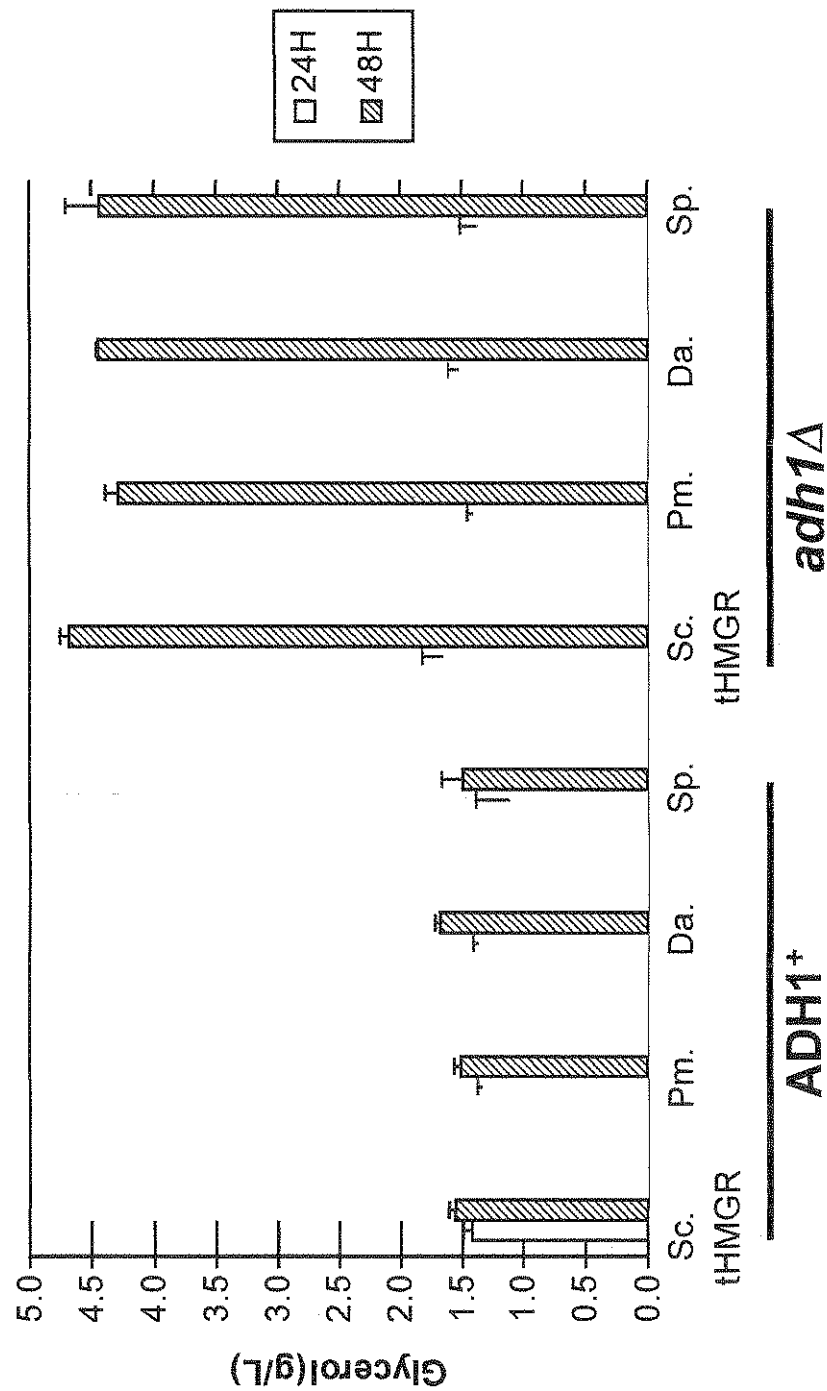


FIG. 10

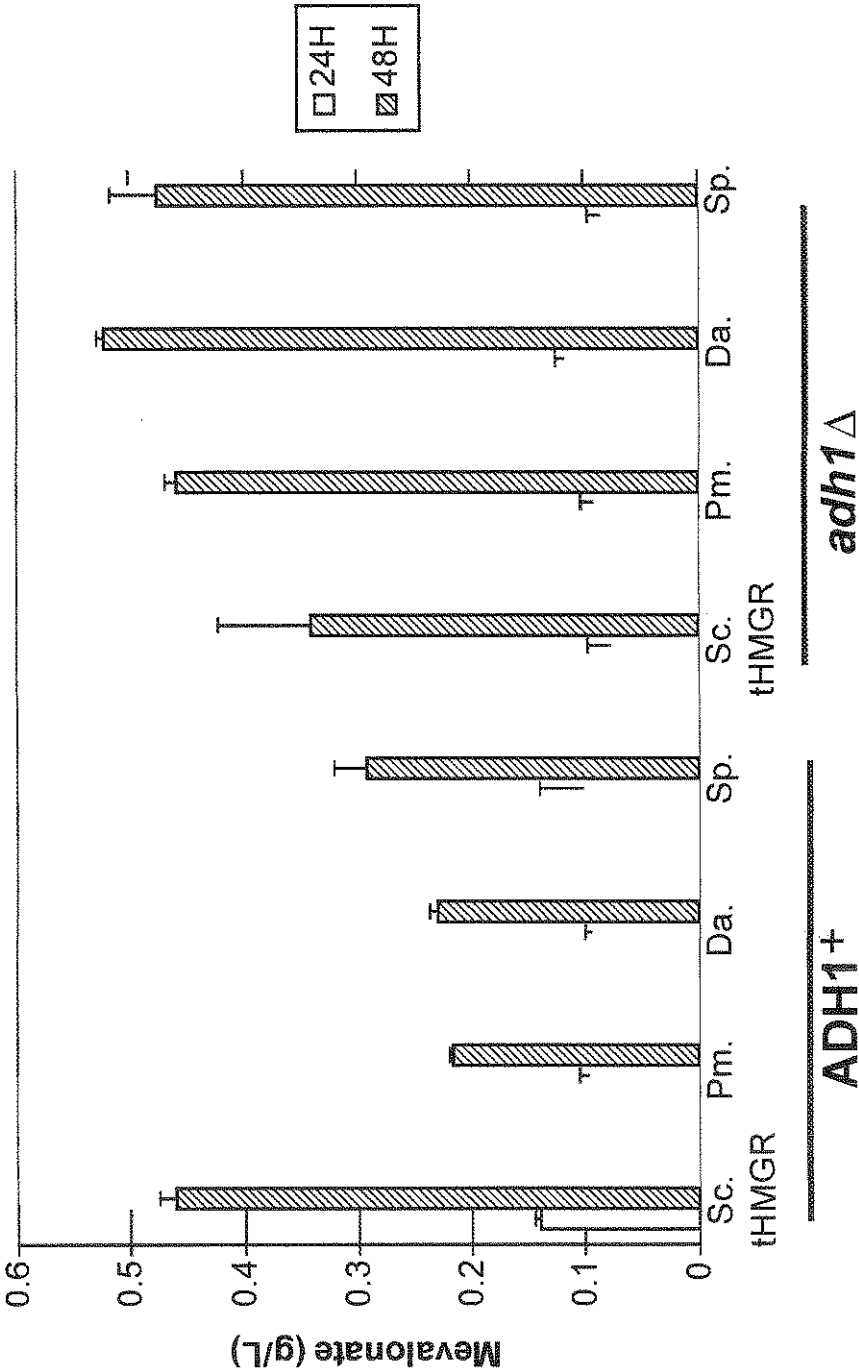


FIG. 11

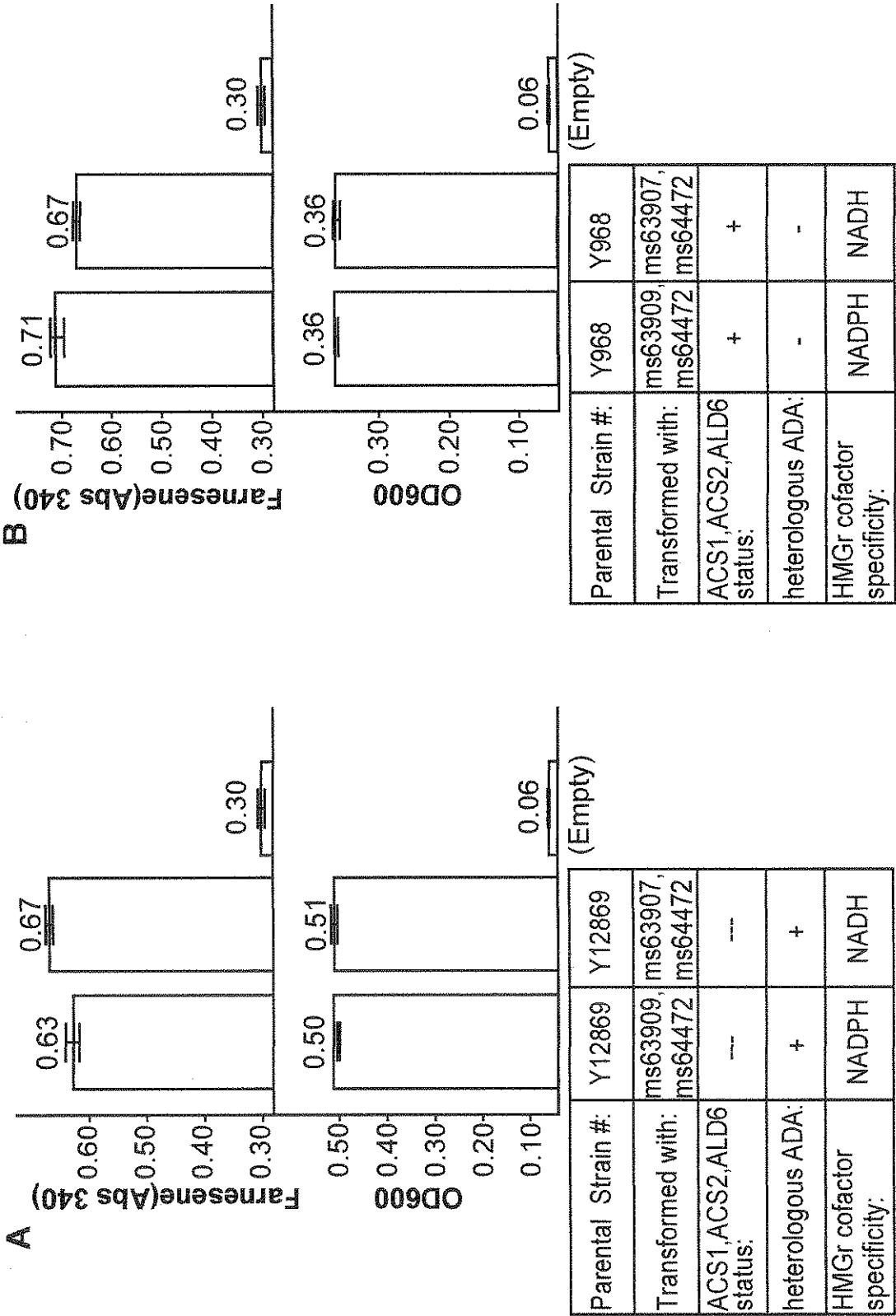


FIG. 12

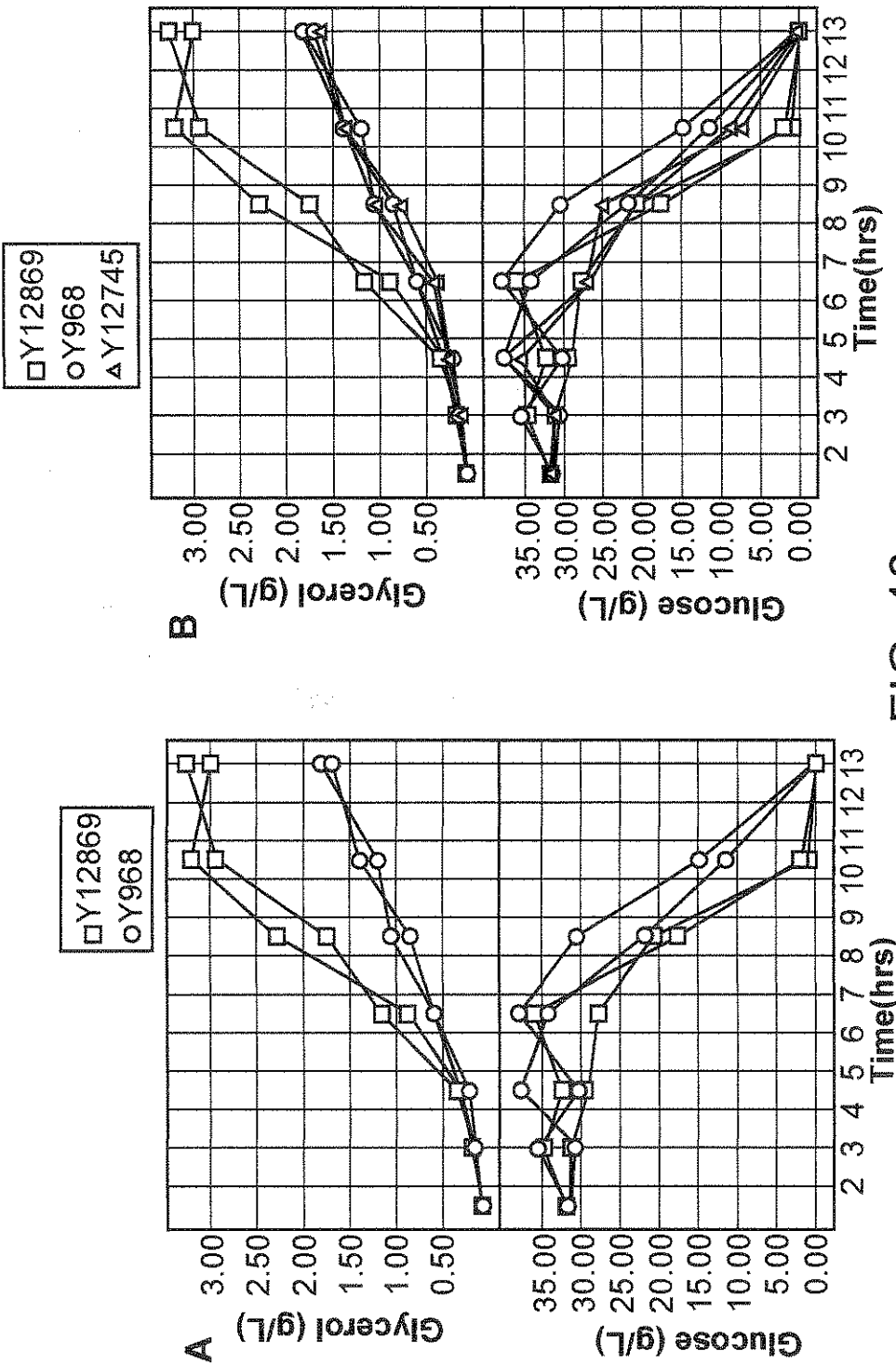


FIG. 13

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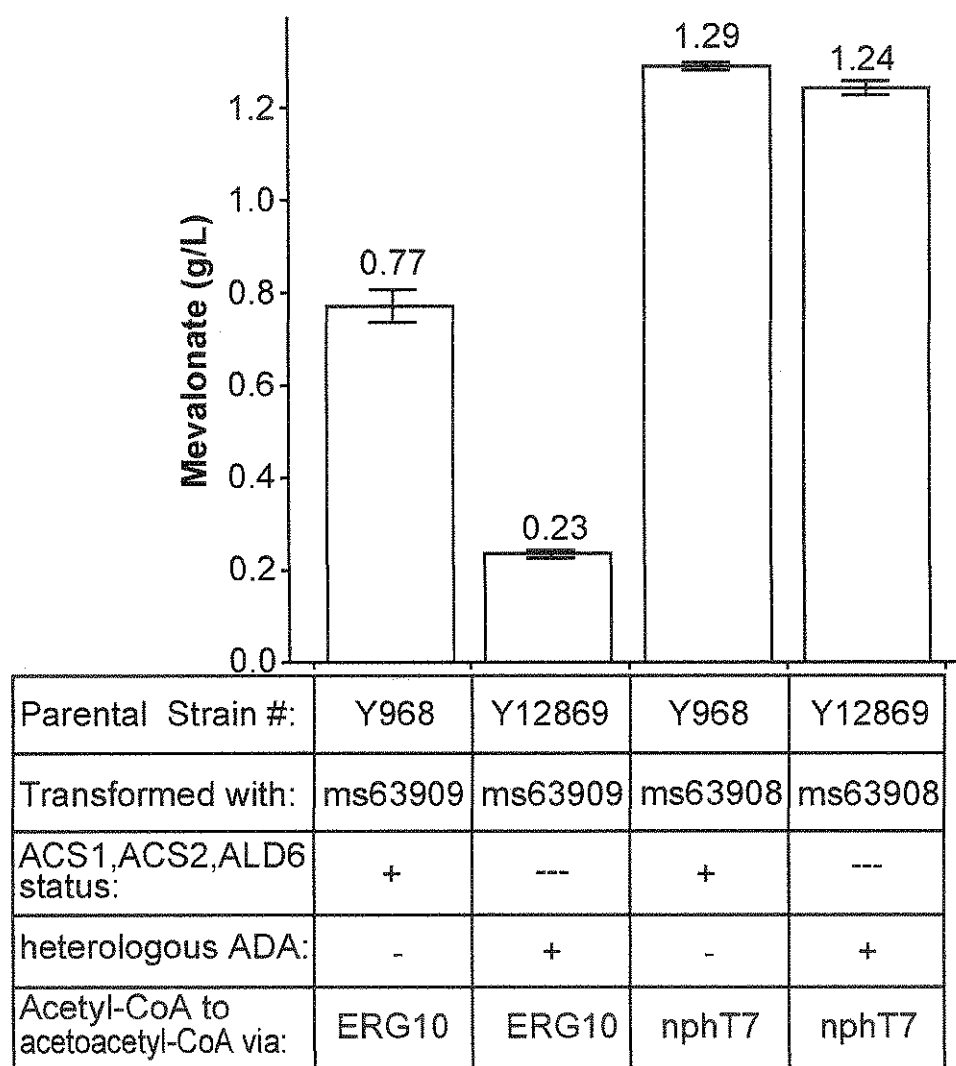


FIG. 14