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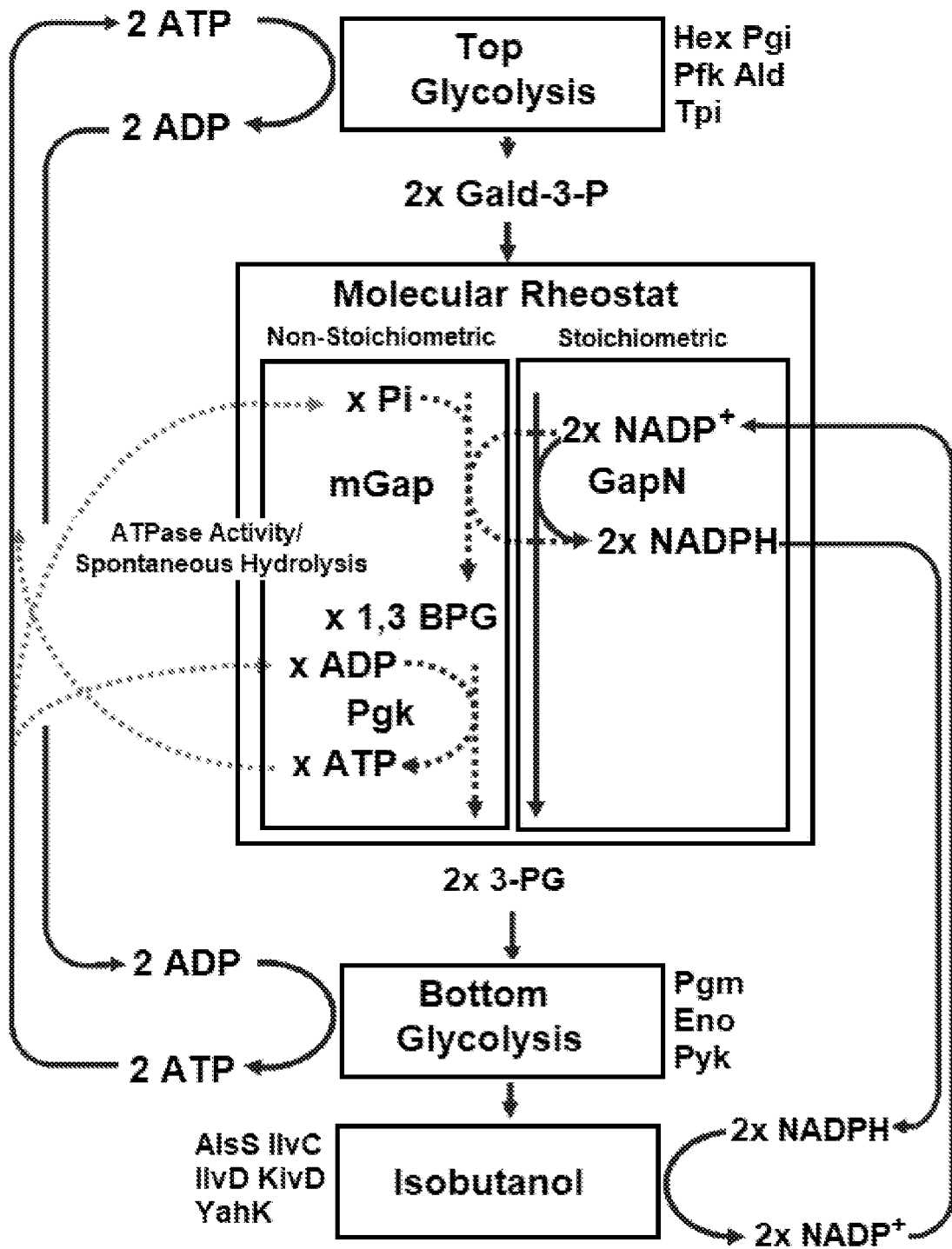


FIG. 1

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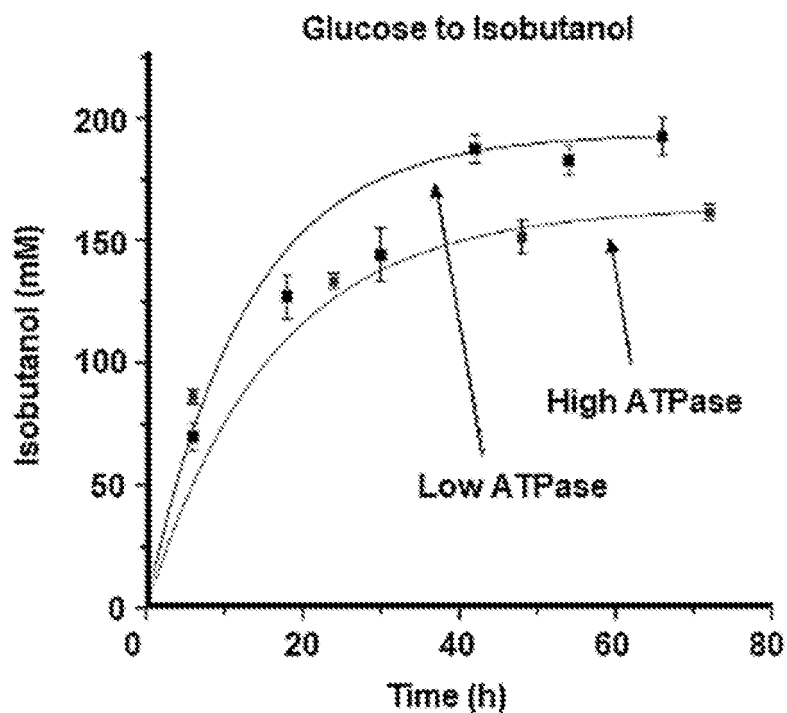


FIG. 2A

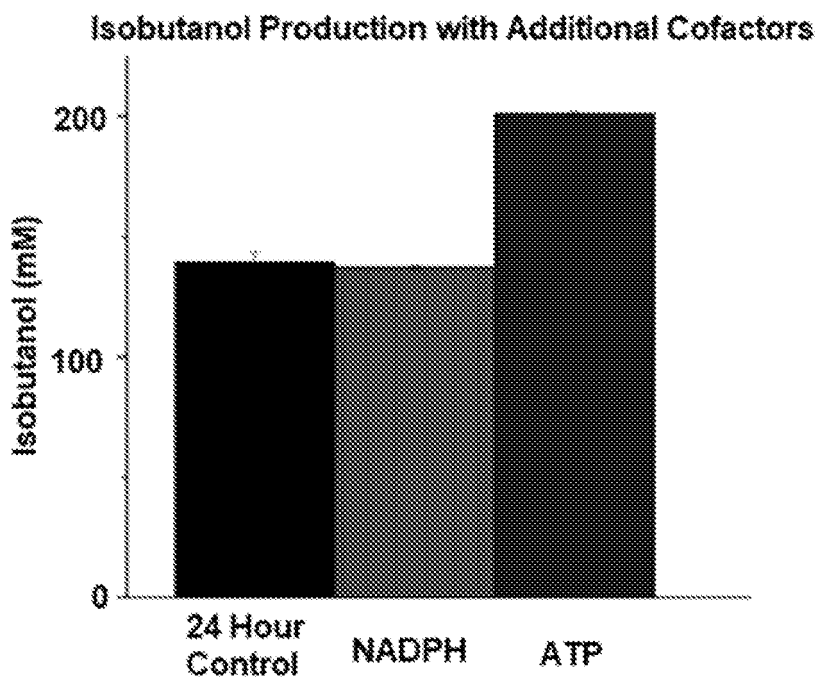


FIG. 2B

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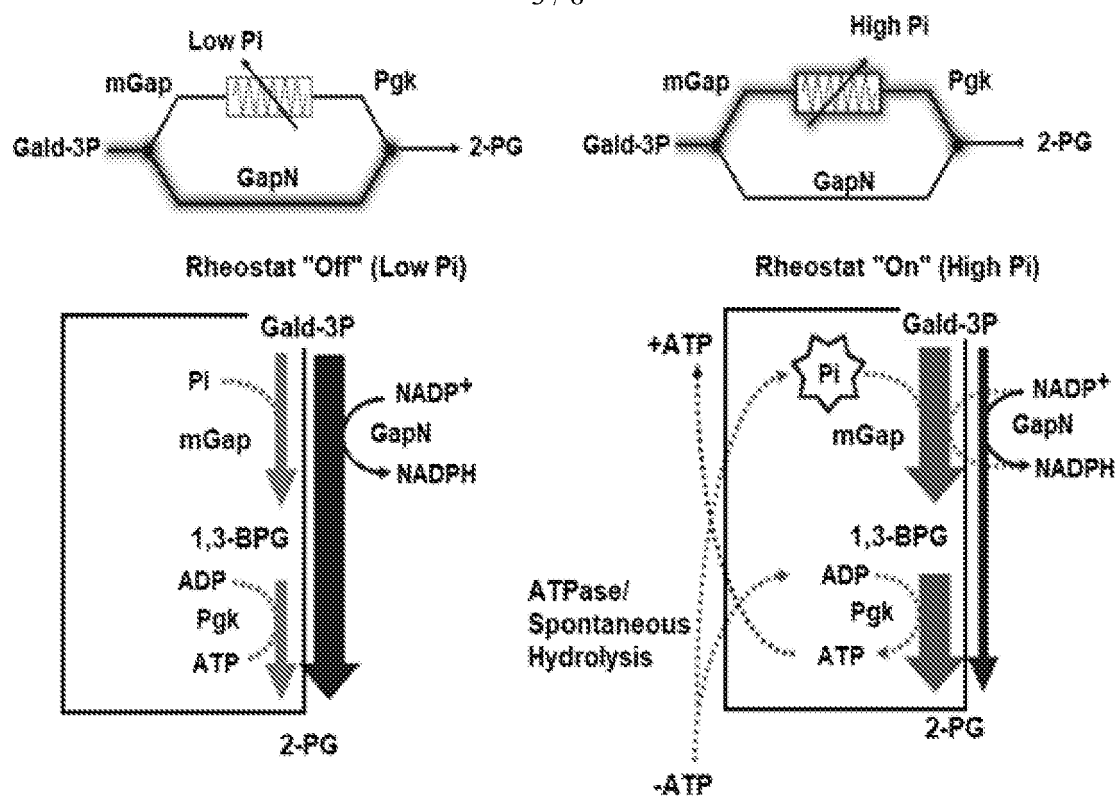


FIG. 3A

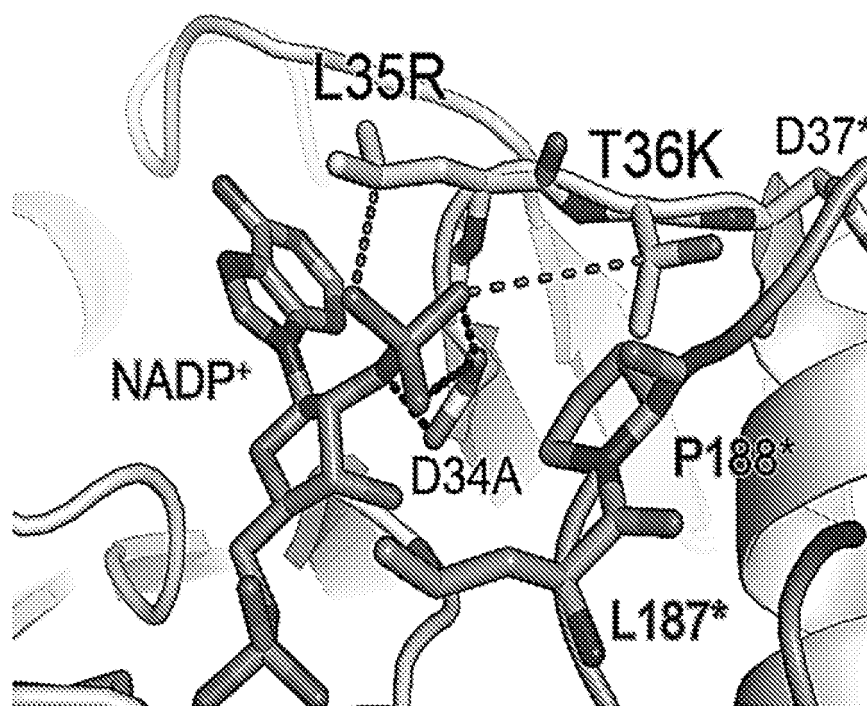


FIG. 3B

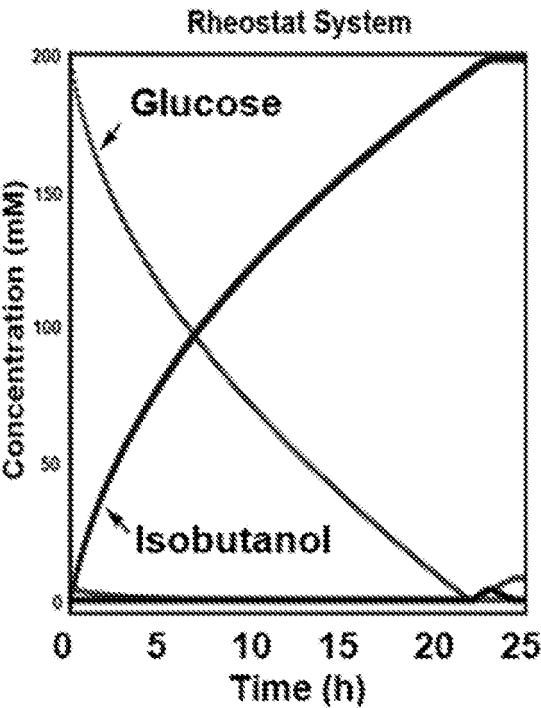


FIG. 4A

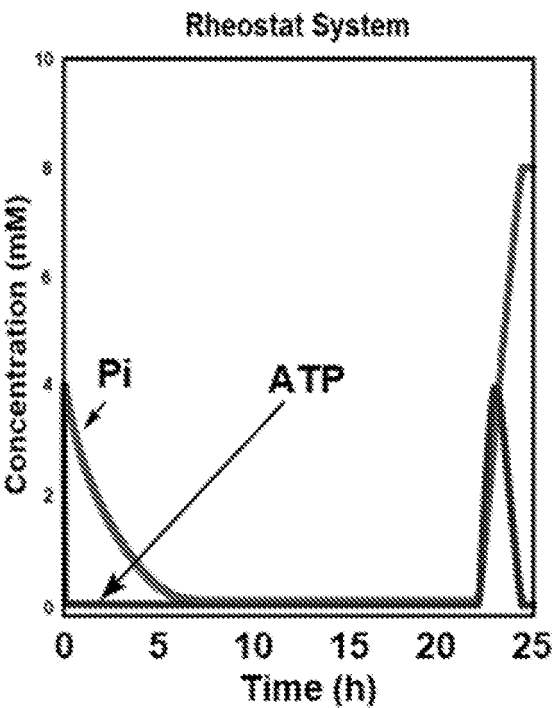


FIG. 4B

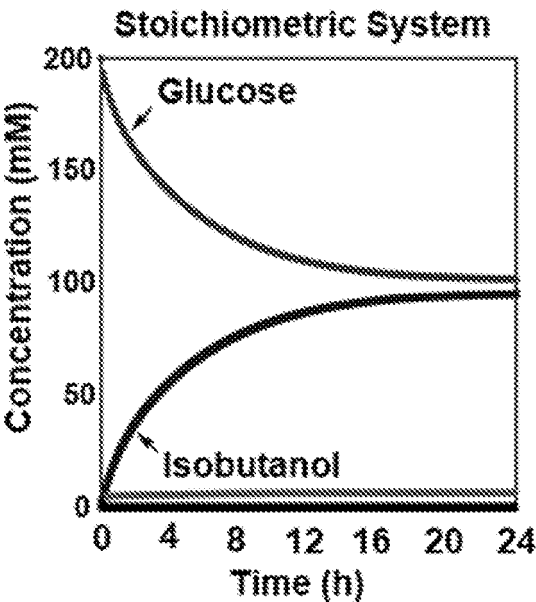


FIG. 4C

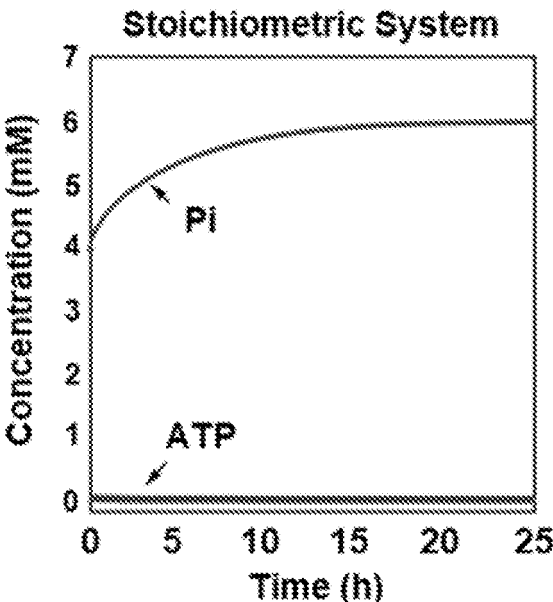
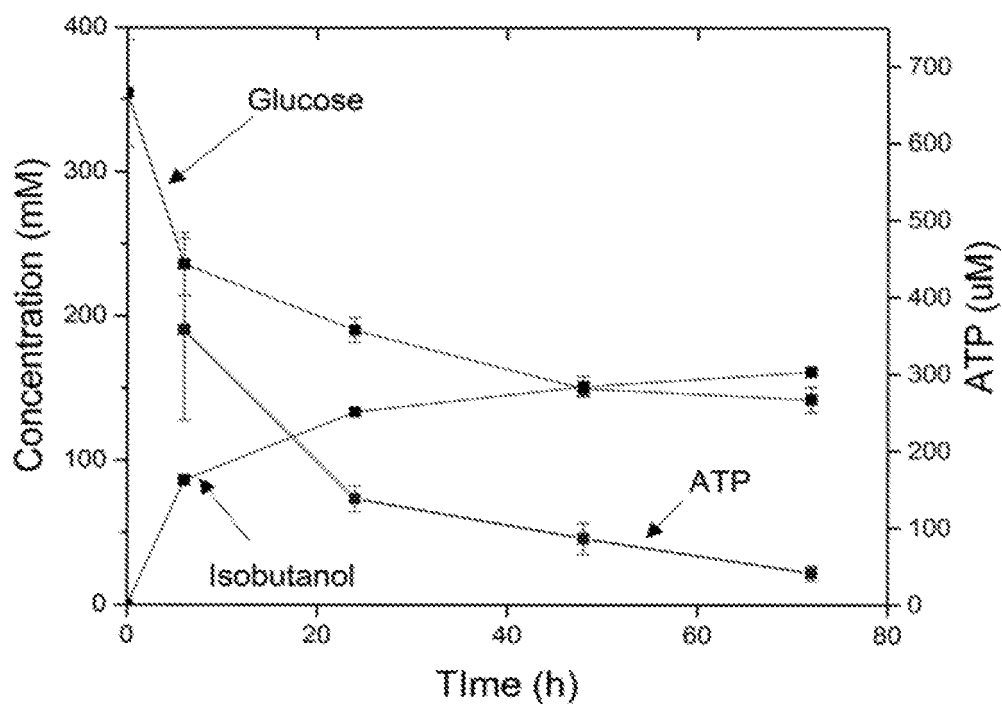
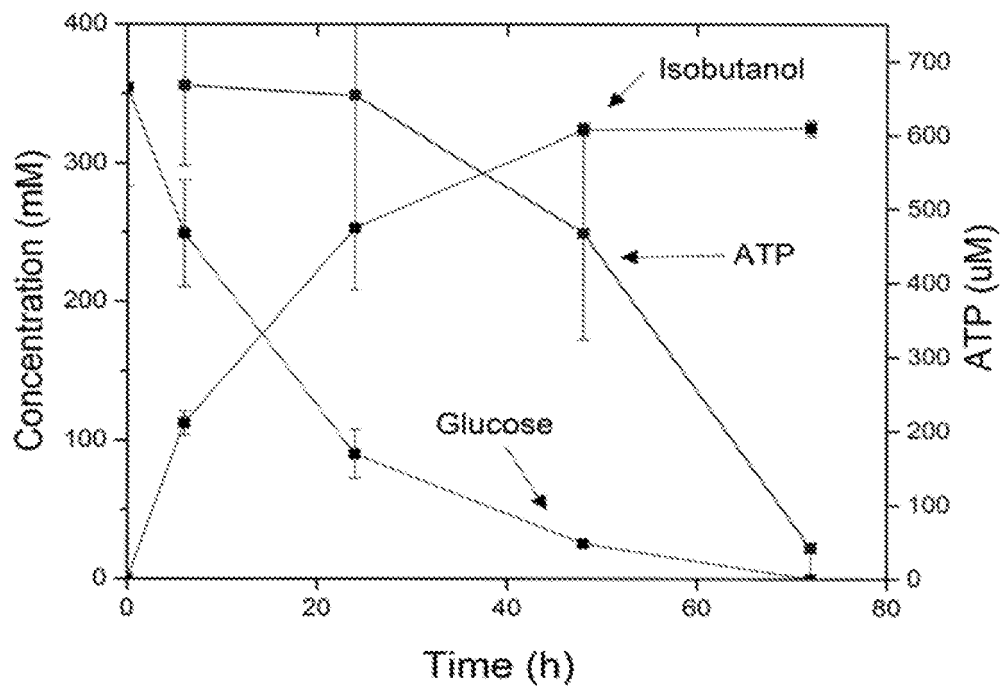


FIG. 4D

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Glucose to Isobutanol (Stoichiometric)**FIG. 5A****Glucose to Isobutanol (Rheostat)****FIG. 5B**

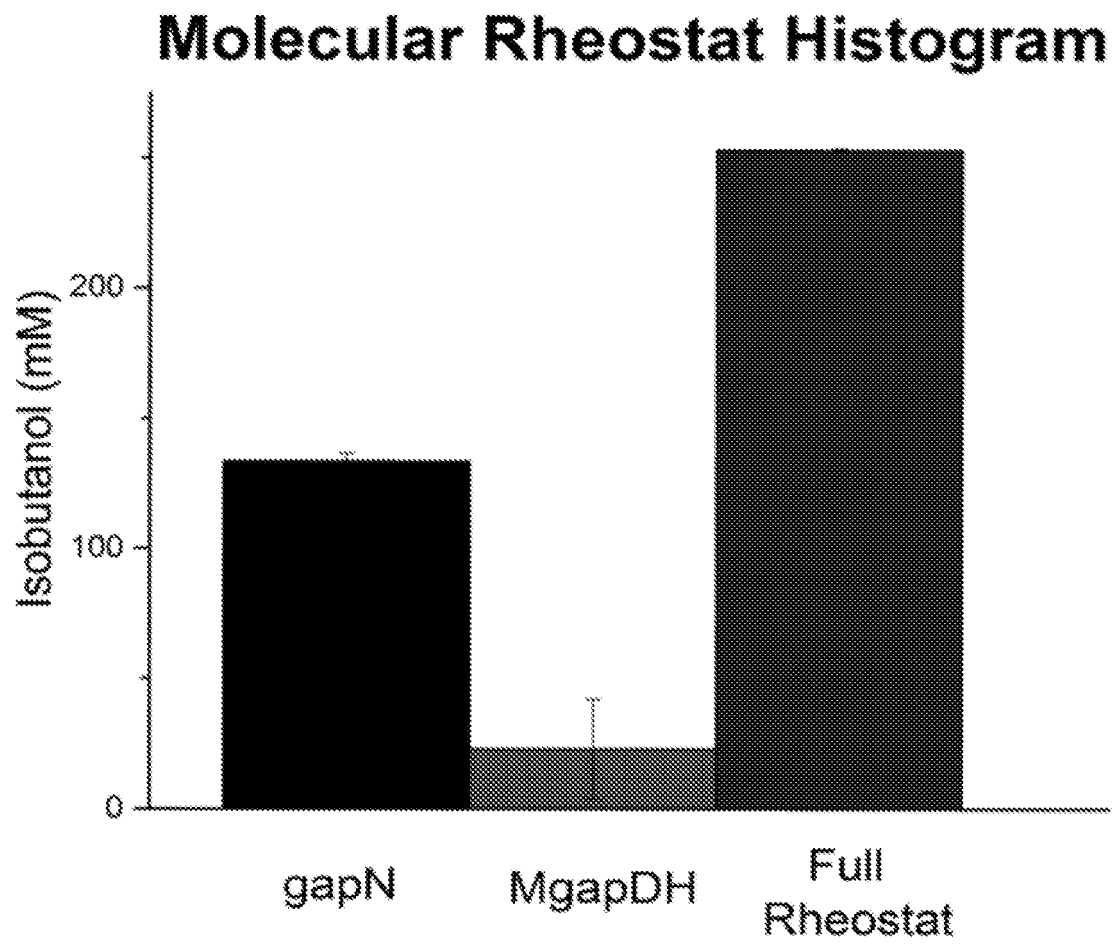


FIG. 5C

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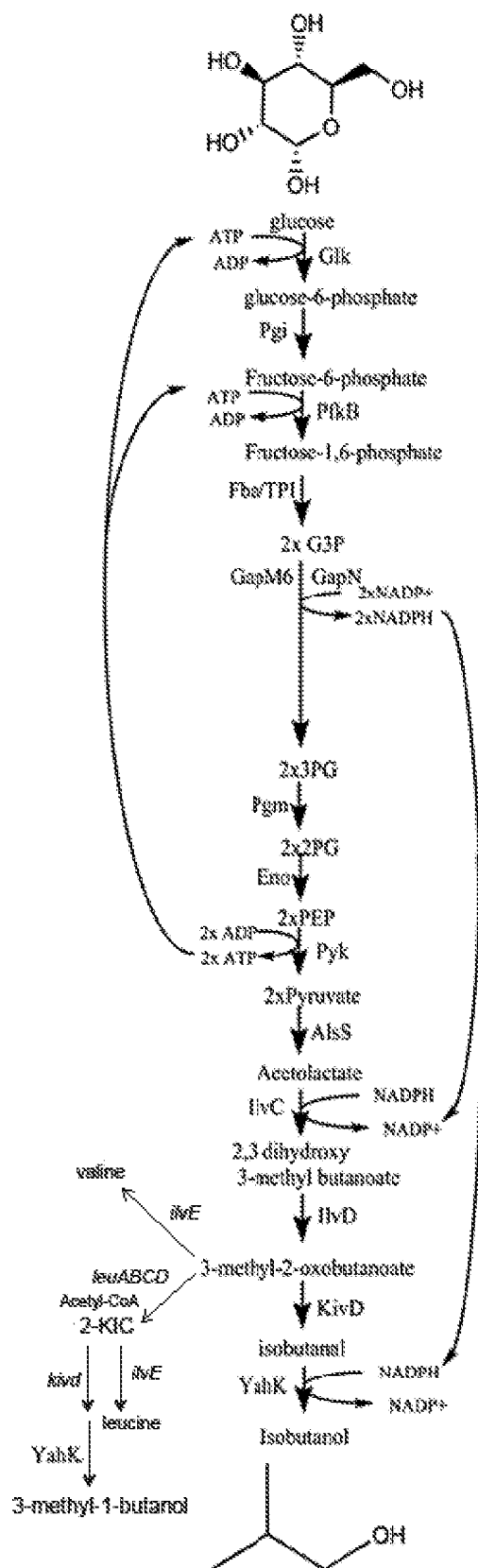


FIG. 6A

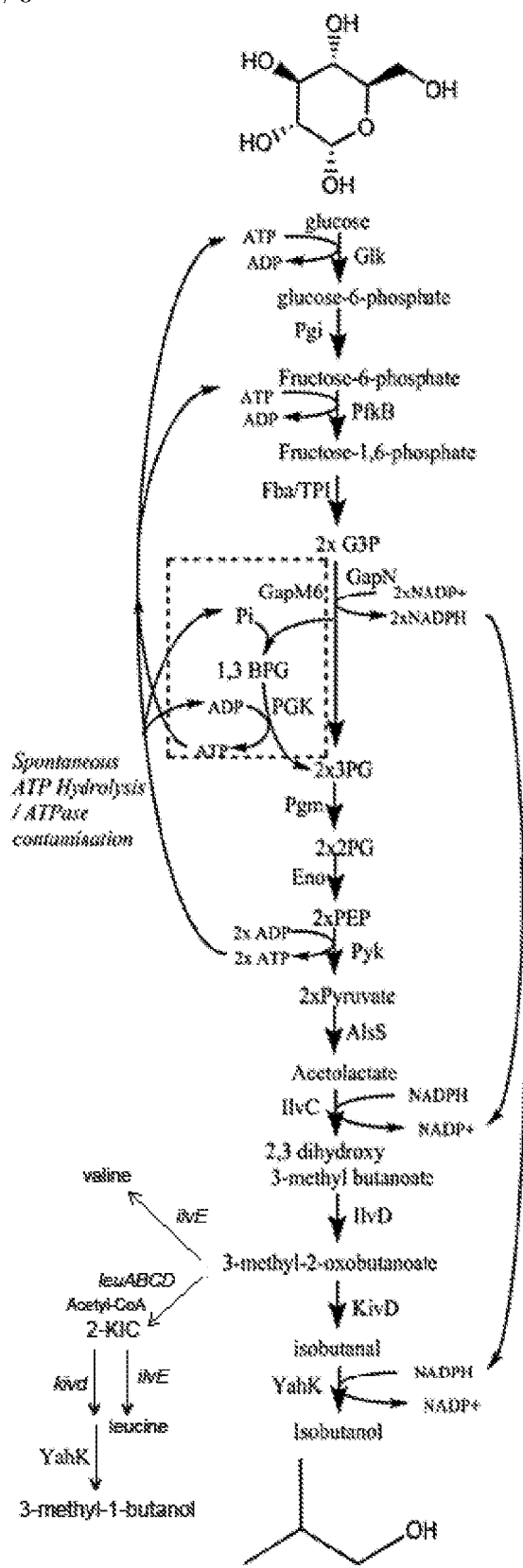


FIG. 6B

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Stoichiometric System Varying Pfk Activity

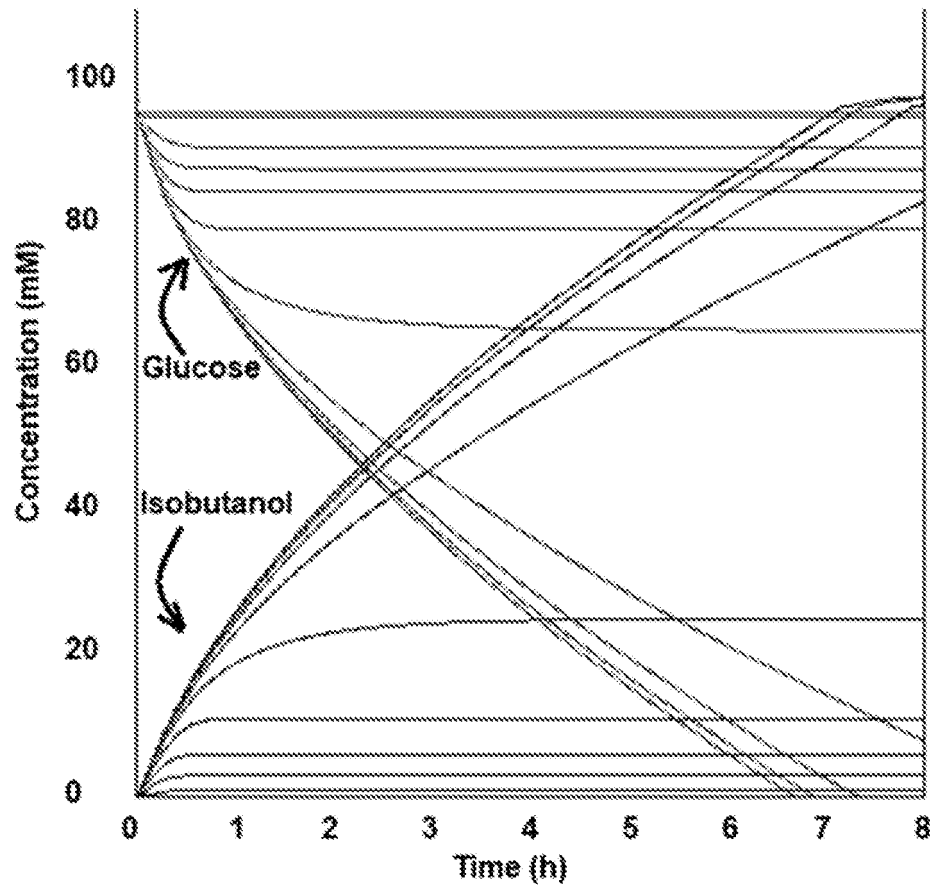


FIG. 7