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- (54) Title: YEAST MICROORGANISMS WITH REDUCED BY-PRODUCT ACCUMULATION FOR IMPROVED PRODUCTION OF FUELS, CHEMICALS, AND AMINO ACIDS

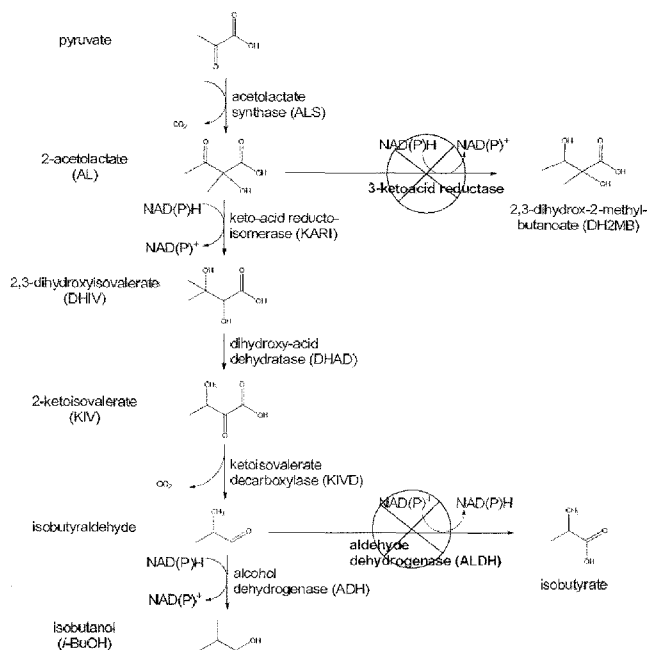


FIGURE 5

(57) Abstract: Recombinant microorganisms comprising biosynthetic pathways and methods of using said recombinant microorganisms to produce various beneficial metabolites are provided. The recombinant microorganisms provided may further comprise one or more modifications resulting in the reduction or elimination of 3 keto-acid (e.g., acetolactate and 2-aceto-2-hydroxybutyrate) and/or aldehyde-derived byproducts. Further, the recombinant microorganisms may be microorganisms of the Saccharomyces clade, Crabtree-negative yeast microorganisms, Crabtree-positive yeast microorganisms, post-WGD (whole genome duplication) yeast microorganisms, pre-WGD (whole genome duplication) yeast microorganisms, and non-fermenting yeast microorganisms.



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