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(54) Title: MICROORGANISMS AND METHODS FOR THE BIOSYNTHESIS OF P-TOLUATE AND TEREPHTHALATE

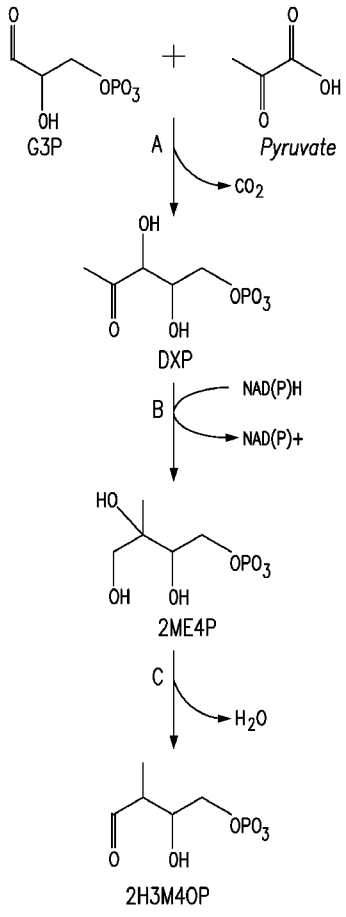


FIG. 1

(57) Abstract: The invention provides non-naturally occurring microbial organisms having a (2-hydroxy- 3-methyl-4-oxobutoxy)phosphonate pathway, p- toluate pathway, and/or terephthalate pathway. The invention additionally provides methods of using such organisms to produce (2-hydroxy-3- methyl-4-oxobutoxy)phosphonate pathway, p- toluate pathway or terephthalate pathway.

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