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(71) Applicant: SOLUGEN, INC. [US/US]; 14549 Minnetta Street, Houston, Texas 77035-6523 (US).

(72) Inventors: LEE, Toni M.; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US). QIAN, Shuai; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US). FISHER, Brian F.; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US). WIEMANN, Phillip; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US). WOELK, Hans-Joerg; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US).

ton, Texas 77035-6523 (US). CHAKRABARTI, Gaurab; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US). HUNT, Sean; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US). MILLER, Konrad V.; c/o Solugen, Inc., 14549 Minnetta Street, Houston, Texas 77035-6523 (US).

(74) Agent: FALESKI, Thaddeus J. et al.; Conley Rose, P.C., 575 N. Dairy Ashford Rd., Suite 1102, Houston, Texas 77079 (US).

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(54) Title: COMPOSITIONS AND METHODS FOR 2,5-FURAN DICARBOXYLIC ACID PRODUCTION

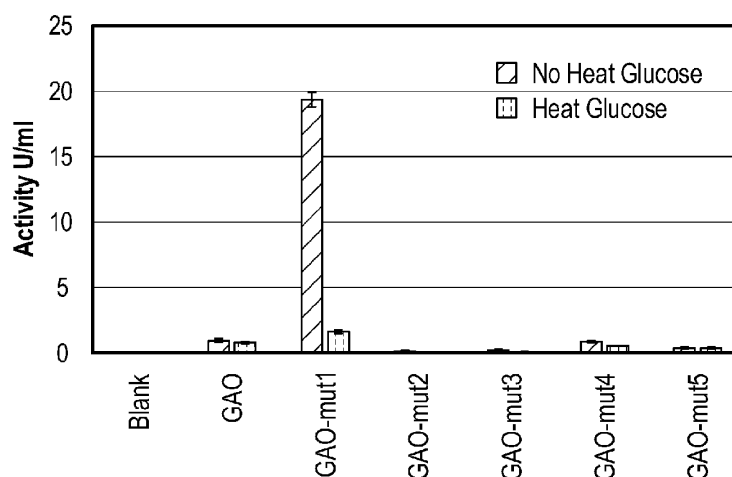


FIG. 1

(57) Abstract: A chemoenzymatic process for the preparation of 2,5-furan dicarboxylic acid includes contacting D-glucose with (i) at least two enzymes selected from the group consisting essentially of galactose oxidase, pyranose 2-oxidase, glucarate dehydratase, catalase and a combination thereof to produce an intermediate; and (ii) a heterogeneous metal catalyst to form 2,5-furan dicarboxylic acid.

[Continued on next page]

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