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(71) Applicants: C-LECTA GMBH [DE/DE]; Perlickstr. 5,
04103 Leipzig (DE). NEW MATTERHORN, LLC
[US/US]; 2711 Centerville Road, Suite 400, Wilmington,,
DE 19808 (US).

(72) Inventors: BRUCHER, Birgit; Lößnigerstr. 16, 04275
Leipzig (DE). VOGEL, Andreas; Nonnenstraße 44e,
04229 Leipzig (DE).

(74) Agent: NOTTROTT, Stephanie; Isenbruck Bösl
Hörschler LLP Patentanwälte, Prinzregentenstr. 68, 81675
München (DE).

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(54) Title: TREHALOSE PHOSPHORYLASE

(57) Abstract: The present invention is related to a trehalose phosphorylase comprising an amino acid sequence, wherein the amino acid sequence of the trehalose phosphorylase is at least 80% identical to and/or at least 80% homologous to an amino acid sequence of SEQ ID NO:1, wherein the amino acid sequence of the trehalose phosphorylase comprises an amino acid substitution at one or more amino acid positions, wherein the one or more amino acid positions is/are selected from the group consisting of amino acid positions of SEQ ID NO: 1 712, 383, 10, 114, 118, 192, 197, 220, 225, 304, 306, 318, 323, 339, 349, 357, 459, 476, 481, 484, 487, 488, 506, 511, 526, 530, 532, 533, 537, 550, 556, 564, 590, 649, 667, 703 and 705.



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