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(54) Title: CELLULOSE-SYNTHASE-LIKE ENZYMES AND USES THEREOF

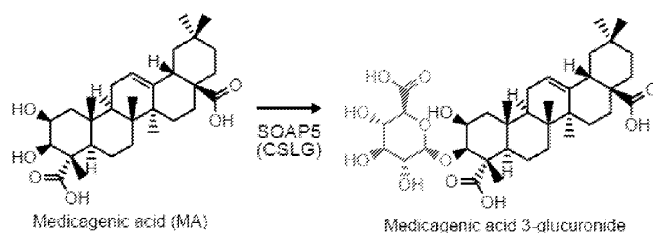


FIGURE 33E

(57) Abstract: Provided herein are genetically modified cells and genetically modified plants having increased or decreased expression of a cellulose synthase like G (CSLG) enzyme. These cells and plants may have an increased or decreased content a steroidal alkaloid, a steroidal saponin, or a triterpenoid saponin, compared to a corresponding unmodified cell or plant. Also provided herein are methods of producing a steroidal alkaloid, a steroidal saponin, or a triterpenoid saponin in a genetically modified cell, as well as methods of reducing the content of a steroidal alkaloid, a steroidal saponin, or a triterpenoid saponin in a cell of a plant or a plant part, and methods of increasing the content of a steroidal alkaloid, a steroidal saponin, or a triterpenoid saponin in a cell of a plant or a plant part.

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