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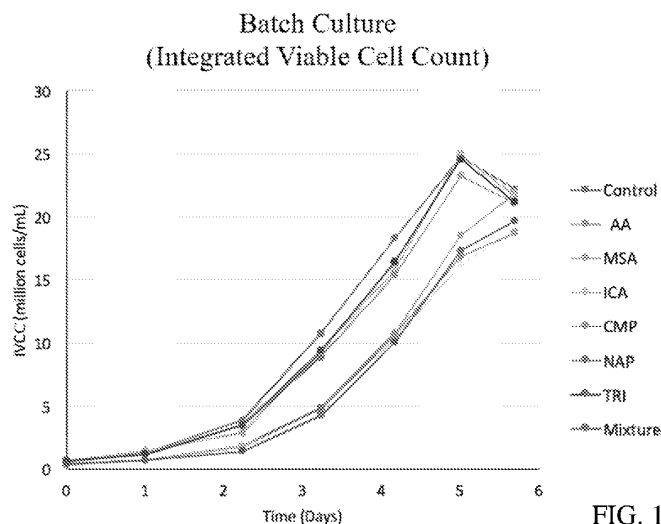


FIG. 1

(57) Abstract: A method of cell culture includes (i) culturing cells in a cell culture medium, and (ii) maintaining at least one metabolite below an inhibitory concentration in the cell culture medium for the at least one metabolite, wherein the at least one metabolite is aconitic acid (AA), leucic acid (HICA), cytidine monophosphate (CMP), methylsuccinic acid (MSA), trigonelline (TRI), N-acetylputrescine (NAP), or a combination thereof, and wherein the enzyme comprises ADH5, BCAT1, CAT, GOT1, HADHB, H0GA1, SLC35A1, or a combination thereof.

[Continued on next page]

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