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(54) Title: COMPOSITION INCLUDING PROBIOTICS FOR TELOMERASE PRODUCTION

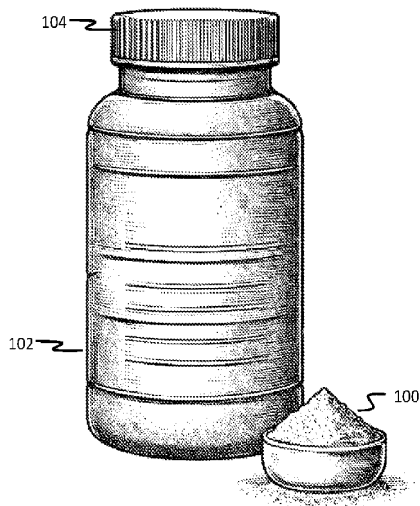


Fig. 1

(57) Abstract: A composition that comprises recombinant probi-
otic organisms recombinantly engineered to constitutively express
an enzyme involved in maintaining the length of telomeres, where-
in the enzyme comprises telomerase subunits, the genetic modifica-
tion comprises an operon that includes a promoter recognized by the
probiotic organism's RNA polymerase and a gene sequence encod-
ing telomerase with genetic modifications that induces secretion of
telomerase into a host organism, and the genetic modification of the
telomerase gene sequence enhances the telomerase enzyme entrance
into the host organism's cells.

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