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(54) **Title:** E COLI STRAINS HAVING AN OXIDATIVE CYTOPLASM

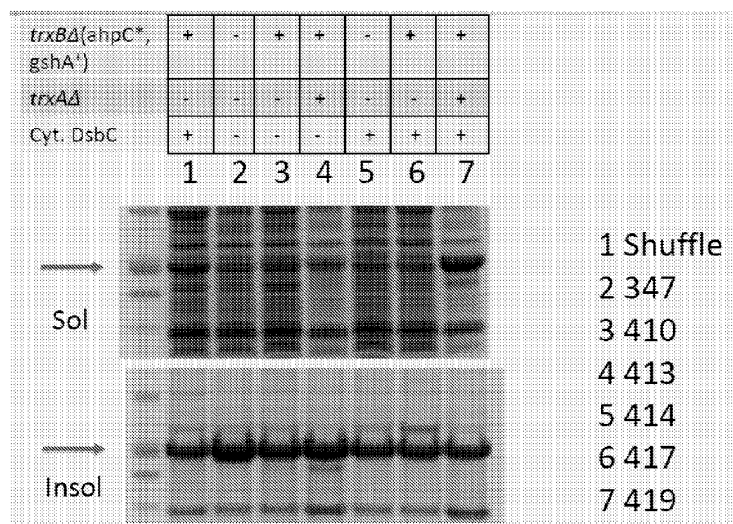


FIG. 1A

(57) **Abstract:** This disclosure provides an E. coli strain, which lacks thioredoxin reductase activity encoded by *trxB* and thioredoxin I activity encoded by *trxA*, and glutathione reductase activity encoded by *gor*. Said E. coli strain expresses a mutated AhpC protein having glutathione reductase activity and a cytosolic prokaryotic disulfide isomerase. The E. coli strain has an oxidative cytosol and can be used to efficiently produce proteins having disulfide bonds.

[Continued on next page]

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