



Correction to: High-yield production of L-serine from glycerol by engineered *Escherichia coli*

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Unfortunately, the order of the Figs. 1–4 has been positioned wrongly in the print published article. Following are the corrections: Fig. 1 of this article should be placed in the position of Fig. 2, Fig. 2 should be placed in the position of Fig. 3, Fig. 3 should be placed in the position of Fig. 4, and Fig. 4 should be placed in the position of Fig. 1. The correct figures (Figs. 1, 2, 3, 4) are given below.

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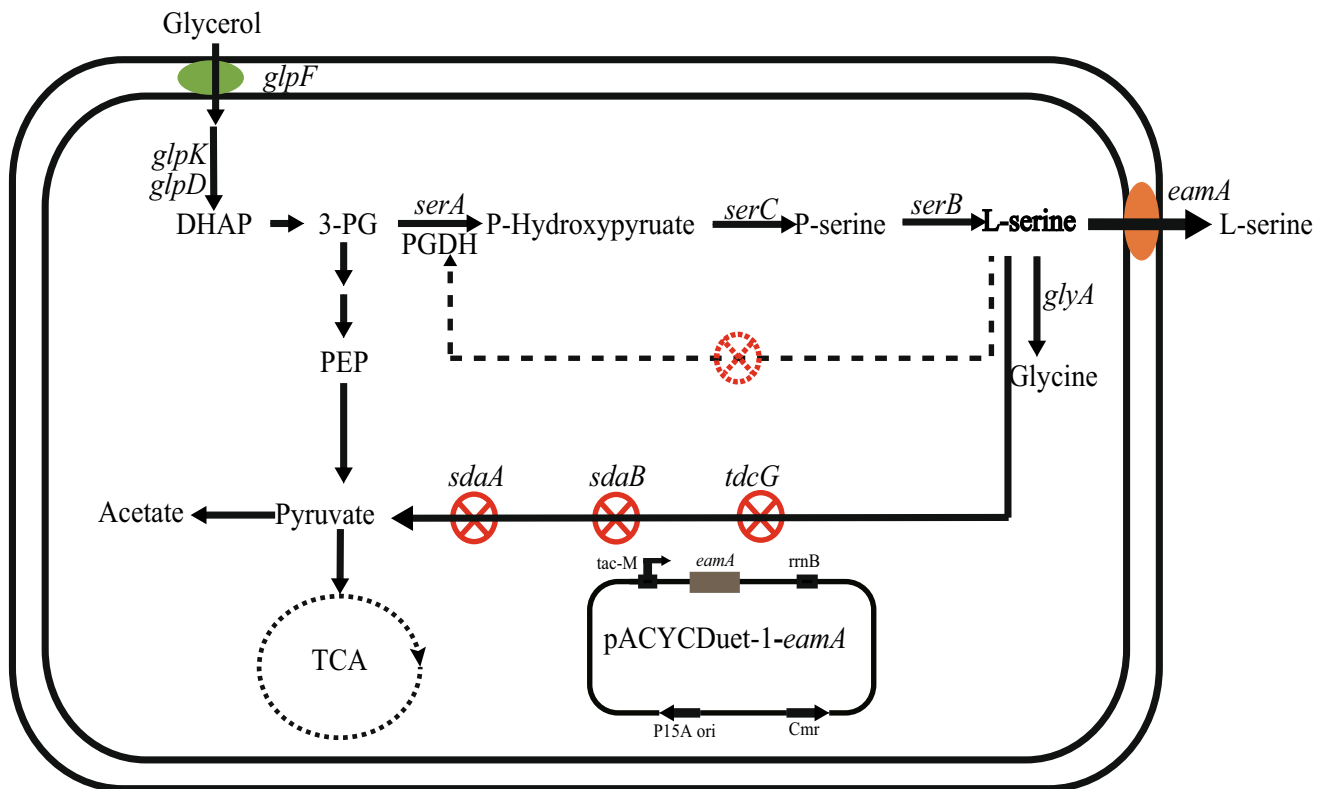


Fig. 1 L-serine biosynthesis pathways from glycerol in *E. coli*. Genes and enzymes: glycerol facilitator (*glpF*); glycerol kinase (*glpK*); glycerol 3-phosphate dehydrogenase (*glpD*); 3-phosphoglycerate dehydrogenase (*serA*); phosphoserine aminotransferase (*serC*); phosphoserine phosphatase (*serB*); cysteine/acetyl serine transporter (*eamA*); serine hydroxymethyltransferase (*glyA*); L-serine deaminases (*sdaA*, *sdaB*,

and *tdcG*). Intermediates: dihydroxyacetone phosphate (DHAP); phosphoenolpyruvate (PEP); tricarboxylic acid cycle (TCA). High-lighted arrows indicate pathways in which genes were upregulated by overexpression *eamA*. Red crosses on solid lines (⊗) indicate genes that were deleted. Crosses on dashed lines (⊗) indicate the removal of feedback inhibition (color figure online)

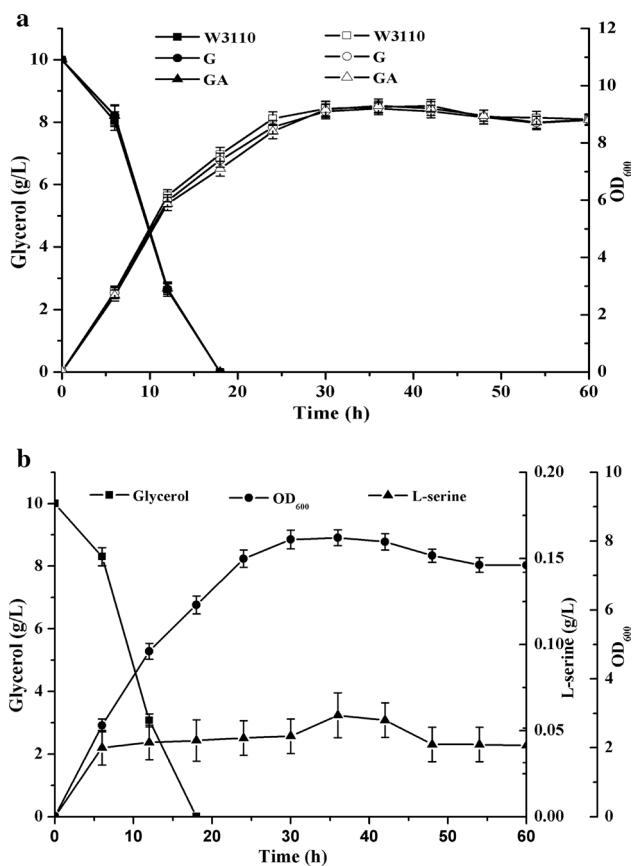


Fig. 2 Comparison of glycerol consumption, cell growth, and L-serine production of strains W3110, G, GA and GAA. **a** Profiles of residual glycerol and cell density with strains W3110, G, and GA. Squares represent W3110, circles represent G, triangles represent GA, open symbols represent OD₆₀₀, closed symbols represent residual glycerol. **b** Profiles of glycerol consumption, cell growth and L-serine production in GAA. Squares represent residual glycerol, circles represent cell growth, triangles represent L-serine. Values denote the average of three independent experiments, and error bars indicate standard deviation

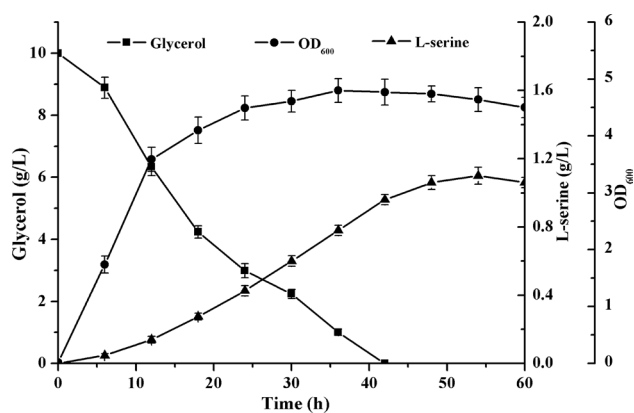


Fig. 3 Time course of L-serine production in the 4W strain during batch fermentation. Squares represent residual glycerol, circles represent cell growth, triangles represent L-serine. Values denote the average of three independent experiments, and error bars indicate standard deviation

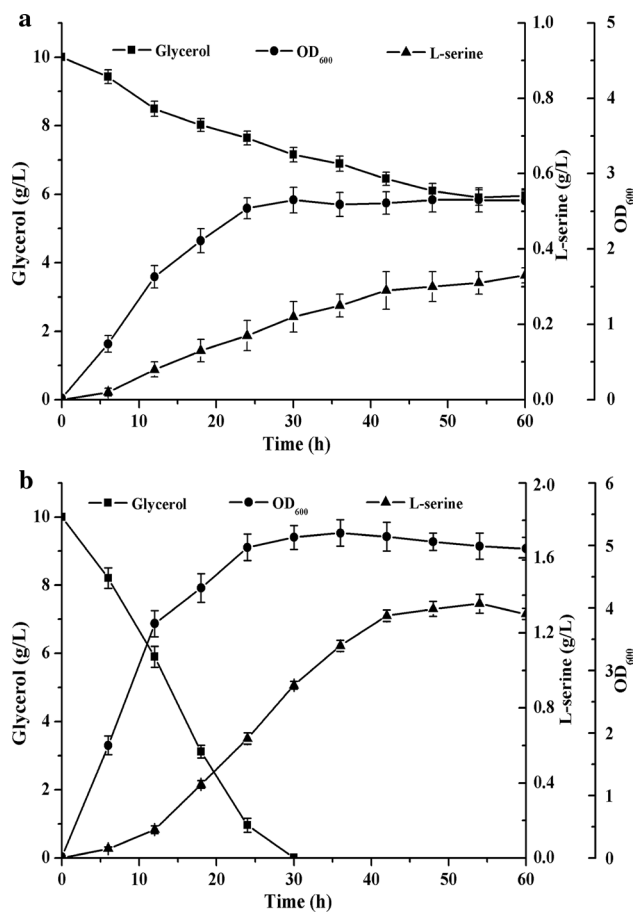


Fig. 4 Comparison of glycerol consumption, cell growth and L-serine production in strains 4W-*glpD-glpK* and 4WA. **a** Profiles of 4W-*glpD-glpK*. Squares represent residual glycerol, circles represent cell growth, triangles represent L-serine. **b** Profiles 4WA. Squares represent residual glycerol, circles represent cell growth, triangles represent L-serine. Values denote the average of three independent experiments, and error bars indicate standard deviation