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Economic Feasibility and Environmental Impact of Synthetic Spider Silk Production from *Escherichia coli*

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Highlights:

- Demonstration of scalable production of artificial spider silk proteins
- *E. coli* techno-economic results for protein production range from \$23-\$761 kg⁻¹
- *E. coli* life cycle results for protein production range from 55-572 kg CO₂-eq. kg⁻¹
- Process optimization highlight areas for targeted research & development

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