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**Production and characterization of bacterial cellulose produced by *Gluconacetobacter xylinus* isolated from Chinese persimmon vinegar**

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Highlights:

- A BC high-producing strain *Gluconoacetobacter xylinus* TJU-S8 was isolated from Chinese persimmon vineager.
- The BC-C and BC-CC composite membranes were successfully synthesized.
- The BC membranes was characterized by TGA, <sup>13</sup>C-NMR, FT-IR, XRD and SEM.
- The BC composite membranes showed excellent efficacy against *Escherichia coli* and *Staphylococcus aureus*.

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