

# **SACCHAROMYCES CEREVISIAE CELL MODIFICATION WITH NICKEL AND FERRIC HEXACYANOFERRATES FOR THE APPLICATION IN BIO-FUEL CELL CONSTRUCTION**

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Although *Saccharomyces cerevisiae* cells are popular in the formation of bio-fuel cells due to their low cost and availability, the conductivity of yeast cell walls limits charge transfer. This research aims to enhance the yeast cell wall conductivity by modifying *Saccharomyces cerevisiae* cells with iron (III) hexacyanoferrate (II) and nickel hexacyanoferrate (II). The conductivities of modified yeast cells were measured using cyclic voltammetry. Additionally, bio-fuel cells were constructed, and their power was measured under different resistances. Changes in bio-fuel cell power over time were also recorded.

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