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AN ELECTROCHEMICAL BIOSENSOR COMPRISING CARBOXYLATED REDUCED GRAPHENE OXIDE-TITANIUM DIOXIDE NANOCOMPOSITE, A METHOD OF PRODUCING AND A USE THEREOF



▶ MORE INFORMATION

MEGA-TREND

- Chemicals and Materials
- Food security and safety

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 6

PATENT/ GRANTED NUMBER

- PI 2021003864

▶ TECHNOLOGY OVERVIEW

The present invention relates to a method of producing a nanocomposite for fabricating an electrochemical biosensor, the method characterized by the steps of preparing carboxylated reduced graphene oxide-titanium dioxide (rGO-TiO₂); wherein the carboxylated rGO-TiO₂ nanocomposite is deposited on a working electrode of an electrochemical biosensor.

The present invention also relates to the electrochemical biosensor and the method for detecting foodborne bacteria using the electrochemical biosensor.

CONTACT US!

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