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A QUORUM SENSING INHIBITOR BIOSENSOR, METHOD AND USE THEREOF

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MEGA-TREND

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TECHNOLOGY READINESS LEVEL (TRL)

- TRL 2 (Lab discoveries)

PATENT/ GRANTED NUMBER

- UI 2016702117

TECHNOLOGY OVERVIEW

The present invention relates to a quorum biosensor. More particularly, the present invention relates to a biosensor for use in detecting short chain N-acyl homoserine lactone synthase inhibitor, characterized in that, the biosensor is a N-acyl homoserine lactone-producing Escherichia coli comprising an arabinose-dependent expression plasmid, its method of manufacturing and method of use thereof. The present invention provides a novel approach for development of short chain N-acyl homoserine lactone synthase inhibitor biosensor that is capable of detecting specific compounds, in particular non-antibiotic compounds, which can be used in controlling quorum sensing-mediated bacterial infection.

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