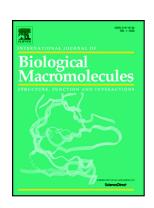
### Accepted Manuscript

Characterization of  $\alpha$ -D-glucan produced by a probiont Enterococcus hirae KX577639 from feces of south Indian Irula tribals

Jabastin Jayamanohar, Palanisamy Bruntha Devi, Digambar Kavitake, Suresh Rajendran, Venkatesan Brindha Priyadarisini, Prathapkumar Halady Shetty



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## **ACCEPTED MANUSCRIPT**

Characterization of α-D-glucan produced by a probiont *Enterococcus hirae* KX577639 from feces of South Indian *Irula* tribals

Jabastin Jayamanohar<sup>1</sup>, Palanisamy Bruntha Devi<sup>1</sup>, Digambar Kavitake<sup>2</sup>, Suresh Rajendran<sup>1</sup>, Venkatesan Brindha Priyadarisini<sup>1</sup>, Prathapkumar Halady Shetty<sup>2\*</sup>

<sup>1</sup>Department of Microbial Biotechnology, Bharathiar University, Coimbatore 641046, India

<sup>2</sup>Department of Food Science and Technology, Pondicherry University, Pondicherry 605014, India

#### **Highlights**

- EPS-producing probiont *Enterococcus hirae* was isolated from feces of *Irula* tribals.
- *E. hirae* KX577639 yielded 18.57 g/L of EPS.
- EPS structure were branched glucan with  $\alpha$ -(1 $\rightarrow$ 6) and  $\alpha$ -(1 $\rightarrow$ 3) linkages.
- EPS microstructure showed porous and starch like cracked granules.
- Glucan was amorphous nature with high thermostability.
- EPS showed water solubility index of 46.5% with 202.04% holding capacity.

<sup>\*</sup> Corresponding author. Tel.: +91 2656743; fax: +91 2656743.*E-mail address*: pkshalady@yahoo.co.uk (P.H. Shetty).

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