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PII: S0141-8130(18)31356-4
DOI: doi:10.1016/j.ijbiomac.2018.07.015
Reference: BIOMAC 10059

To appear in: *International Journal of Biological Macromolecules*

Received date: 21 March 2018
Revised date: 1 June 2018
Accepted date: 4 July 2018

Please cite this article as: Jabastin Jayamanohar, Palanisamy Bruntha Devi, Digambar Kavitake, Suresh Rajendran, Venkatesan Brindha Priyadarisini, Prathapkumar Halady Shetty , Characterization of α-D-glucan produced by a probiont Enterococcus hirae KX577639 from feces of south Indian Irula tribals. Biomac (2018), doi:10.1016/j.ijbiomac.2018.07.015

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

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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 α-(1→6) and α-(1→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.

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