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

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**Characterization of  $\alpha$ -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  $\alpha$ -(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.

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