

**Ilori, M. O., Amund, O.O. and Omidiji, O. (1995)**

Short Communication: Purification and properties of a glucose-forming amylase of *Lactobacillus brevis*.

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**ABSTRACT**

An extracellular glucose-forming amylase was produced by *Lactobacillus brevis* isolated from 'Kagasok tea'. The enzyme was purified 70-fold and had optimal activity at 55 °C and pH 6.5. Its  $K_m$  value for starch was 0.27 mg ml<sup>-1</sup> and its  $M_r$  was approx. 75,900 Da. The activity of the enzyme was enhanced by Ca<sup>2+</sup>, Mg<sup>2+</sup>, Na<sup>+</sup> or K<sup>+</sup> and inhibited by EDTA, KCN, citric acid and L-cysteine.