

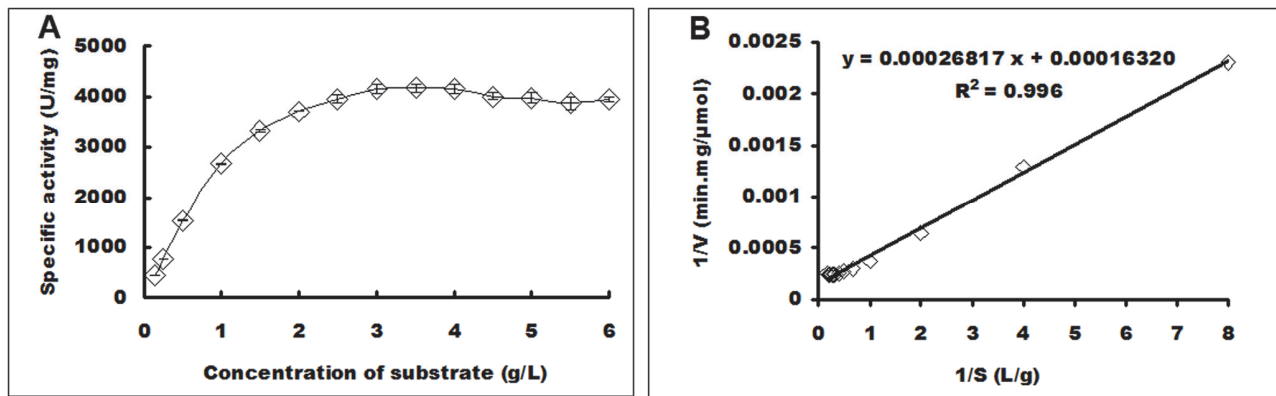


FIG S1. Michaelis-Menten Constant of PoxaEnPG28C. The kinetic parameters of the purified PoxaEnPG28C were determined by assaying the reaction rates for polygalacturonic acid at concentrations ranging from 0.125–6.0 g/L under the standard assay conditions (pH 4.5, 45°C and for 10 min) (A); error bars represent the standard deviation of three repeats. The Michaelis-Menten constant (K_m) and the maximum reaction velocity (V_{max}) were obtained from the Lineweaver-Burk plot (B).

TABLE S1. Effects of 2 mM metal ions on the enzyme activity of PoxaEnPG28C

Salts	Relative activity (%) ^a
Control	100.20±1.20
BaCl ₂	80.88±1.76
CaCl ₂	74.08±2.20
CoCl ₂	95.00±1.47
CuCl ₂	88.78±1.59
FeCl ₂	92.27±3.10
KCl	89.54±5.53
MgCl ₂	97.95±3.12
MnCl ₂	39.12±1.36
NaCl	90.89±2.78
NiCl	79.53±2.57
ZnCl ₂	87.91±1.23

^aAll experiments were performed in triplicate and the mean values are presented. The experiments were repeated three times and similar results were obtained.