

Stabilization of Enzymes by Multipoint Covalent Attachment on Aldehyde-Supports: 2-Picoline Borane as an Alternative Reducing Agent

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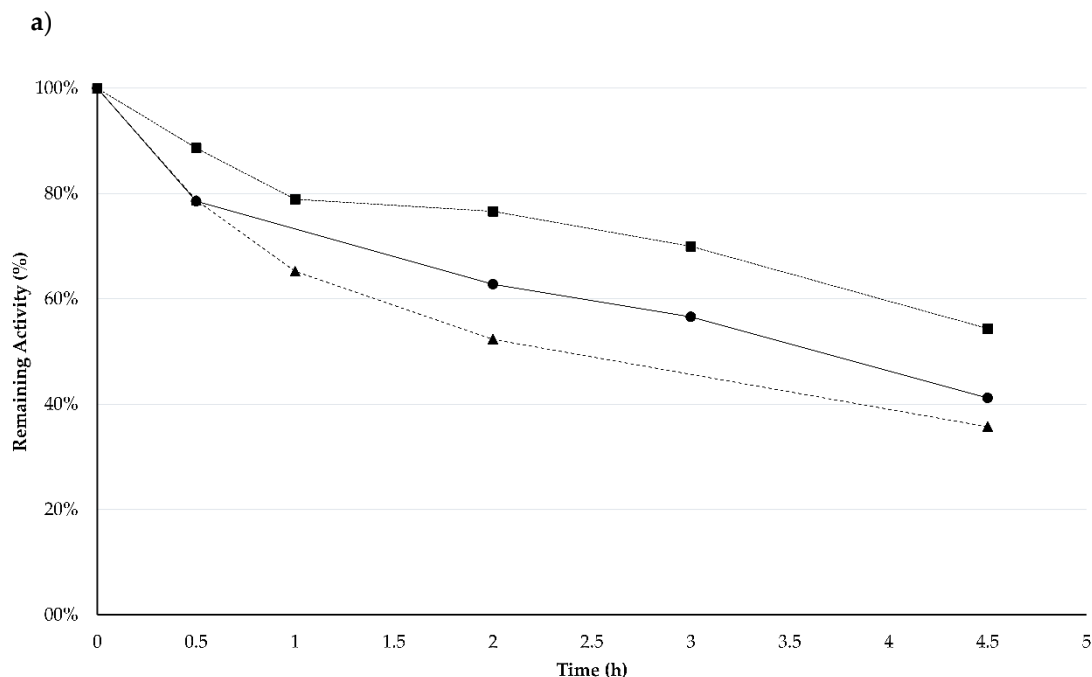
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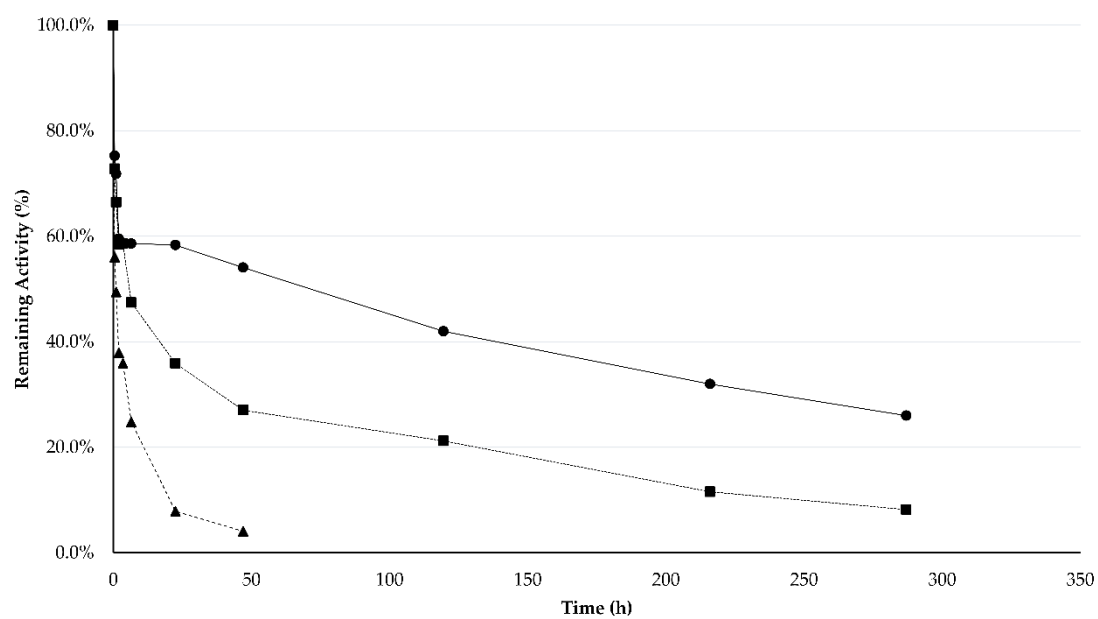
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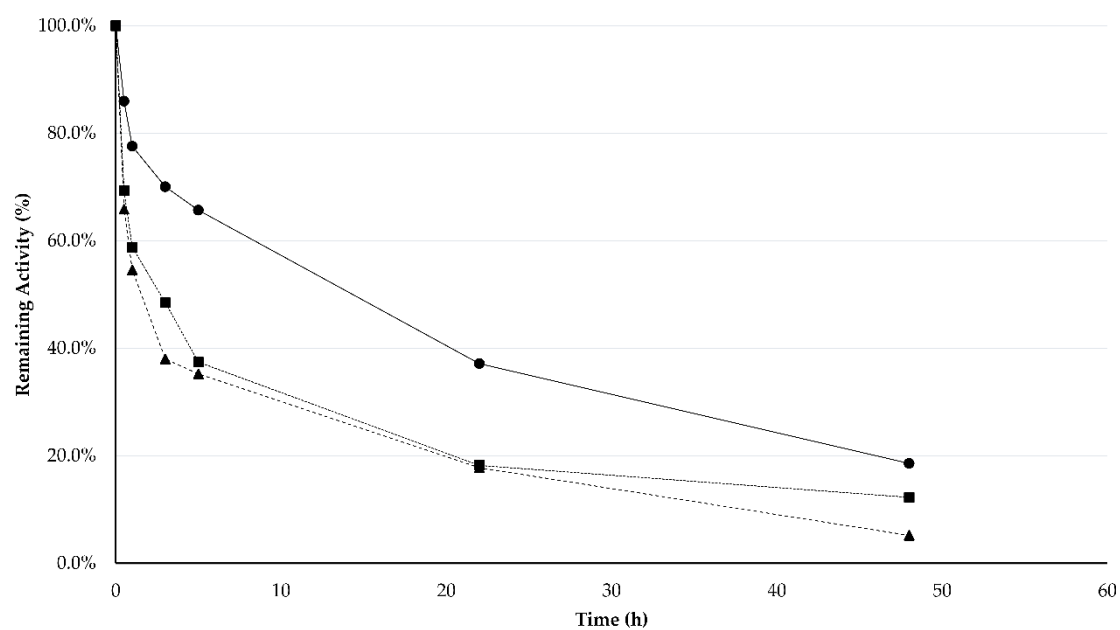
Figure S1. Thermal stabilities of immobilized preparations of Xys1Δ, PGA, DAOO, GlyDH and ADH2. In all cases. GA-B is presented in black circle and solid line; GA-E is presented in black triangle and dash line; GA-G is presented in black squares and dot line. (a) Thermal inactivation of Xys1Δ conjugates at 65 °C and pH 7. (b) Thermal inactivation of PGA conjugates at 60 °C and pH 7. (c) Thermal inactivation of DAAO conjugates at 60 °C and pH 7. (d) Thermal inactivation of GlyDH conjugates at 65 °C and pH 7. (e) Thermal inactivation of ADH2 conjugates at 80 °C and pH 7. All data are the mean value of three separate experiments where the error value was never higher to 5%.



b)



c)



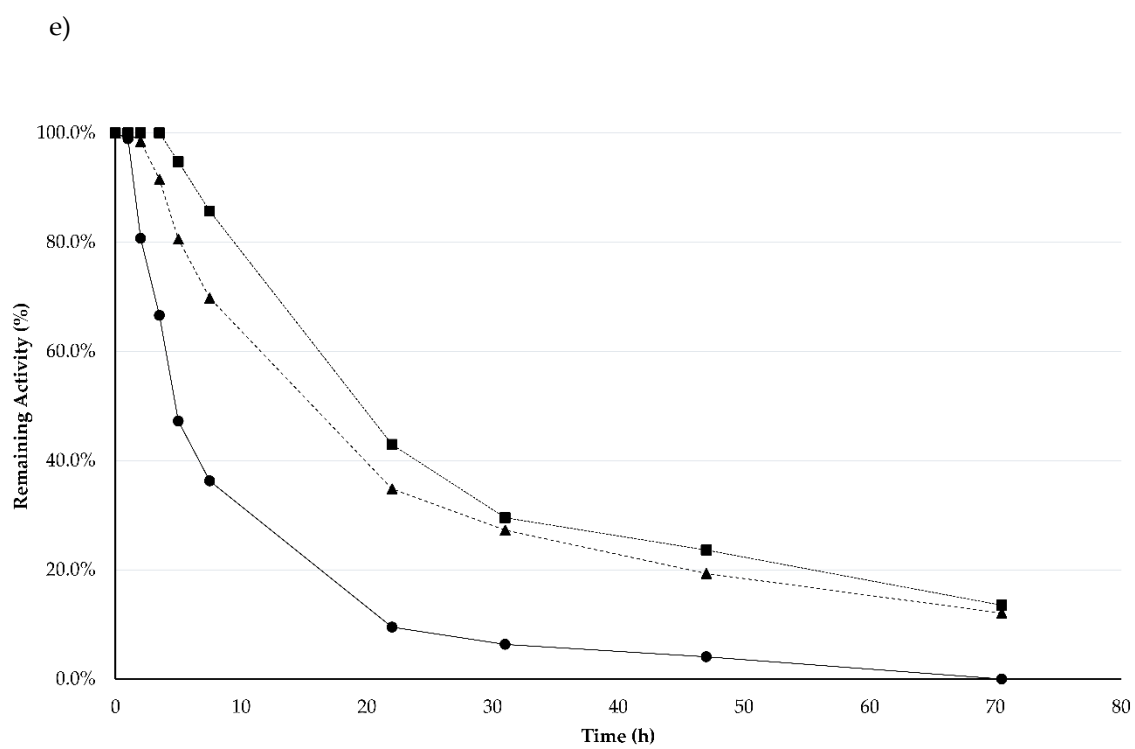
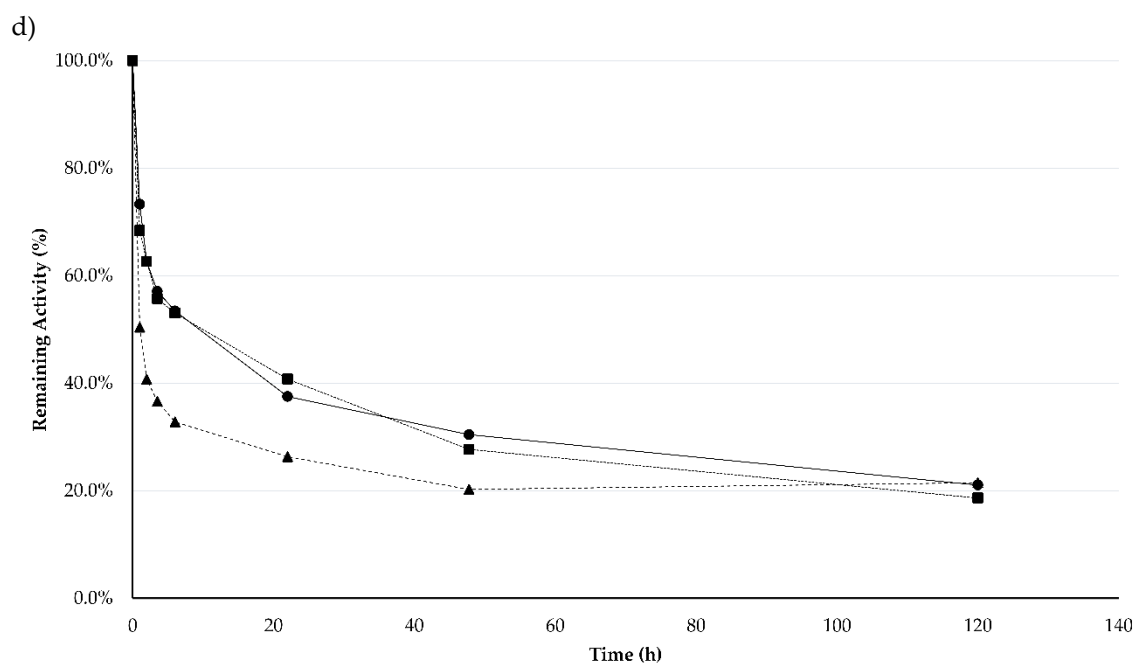
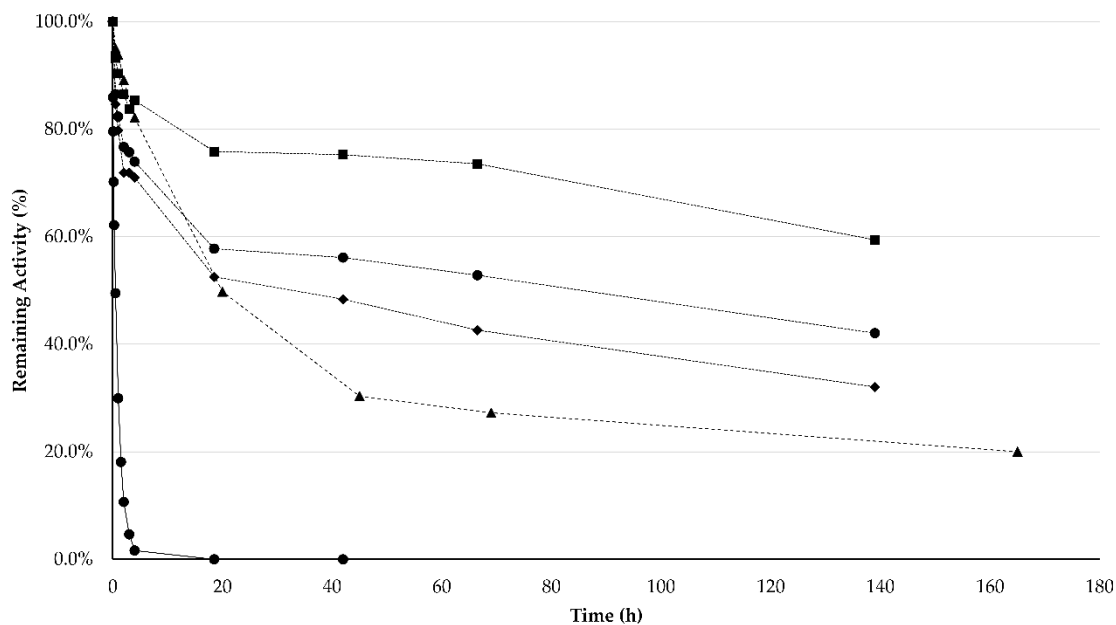


Figure S2. Thermal inactivation course at 50 °C and pH 7 of immobilized ManDH preparations. Soluble ManDH is presented as black circles and solid line; GA-E is presented in black triangles and dash line; GA-G1 is presented in black squares and dash line; GA-G2 is presented in black diamonds and dash line; GA-G3 is presented in black circles and dash line. All data are the mean value of three separate experiments where the error value was never higher to 5%.



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