

Bovine Glutamate Dehydrogenase Immobilization on Magnetic Nanoparticles : conformational changes and catalysis

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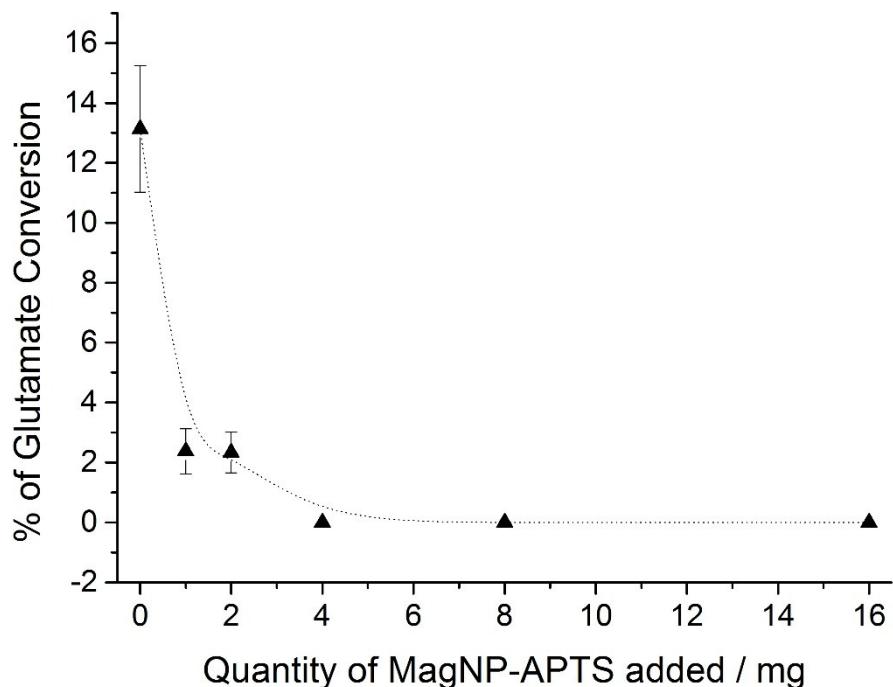
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Support Information

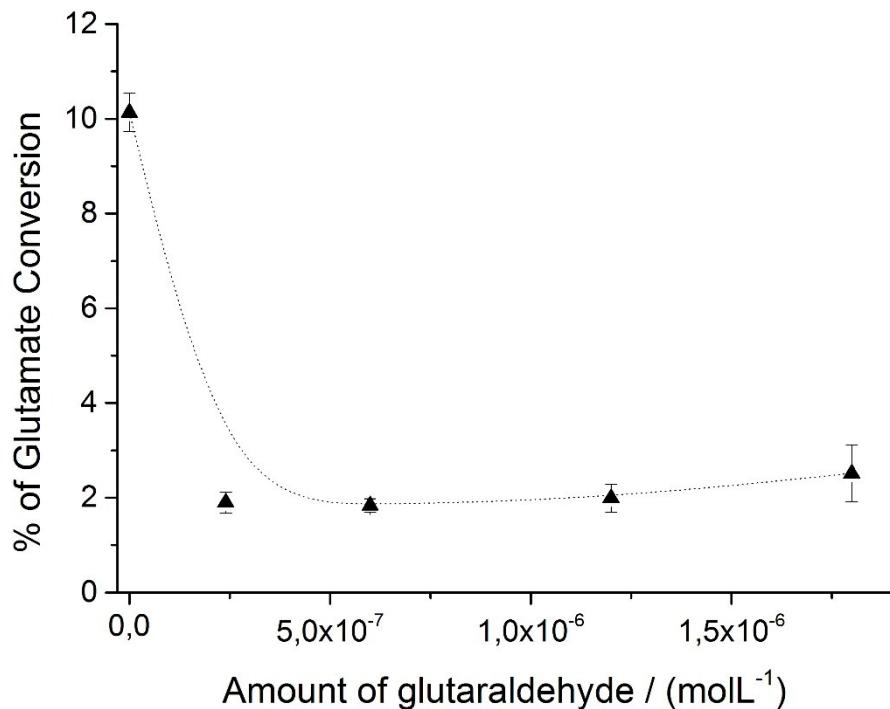
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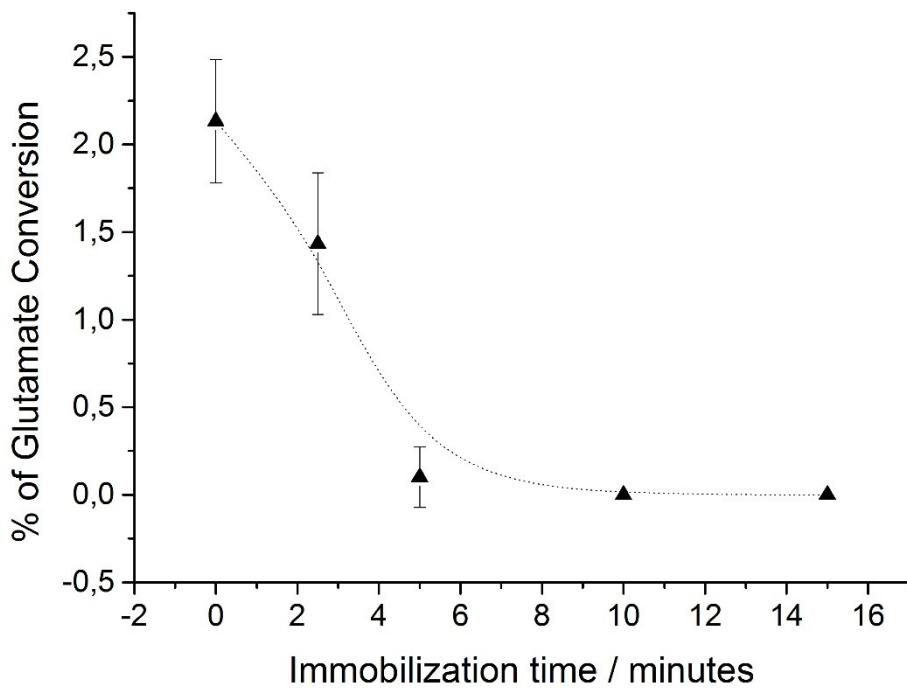
S1- Influence of the amount of MagNP-APTS added to 100 μ L of a GDH solution 0.523 mg/mL (2U) and 1x10-6 mol of glutaraldehyde.



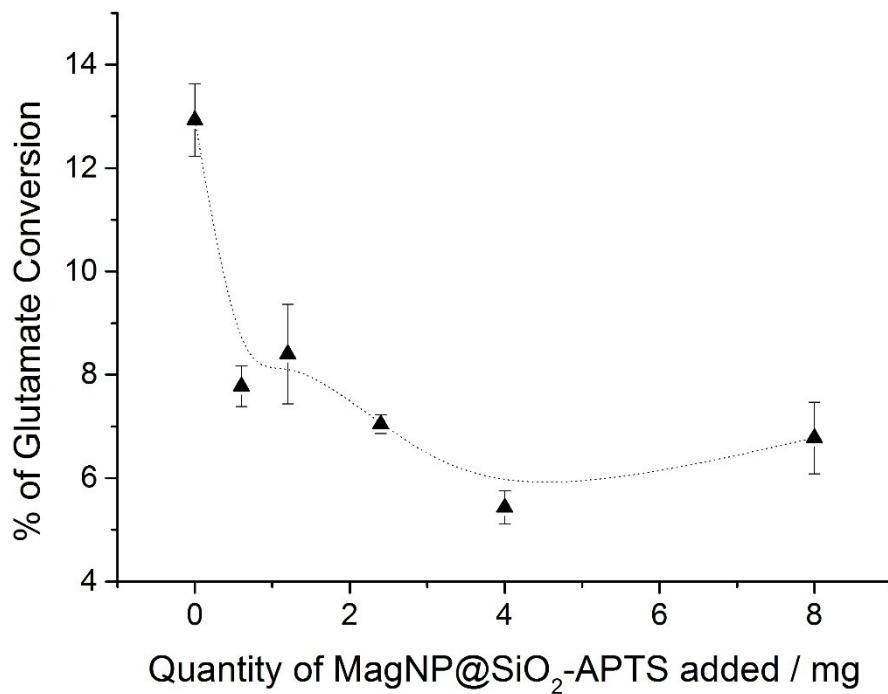
S2- Influence of the amount glutaldehyde added to 100 μL of a GDH solution 0.523 mg/mL (2U) and 2mg of MagNP-APTS.



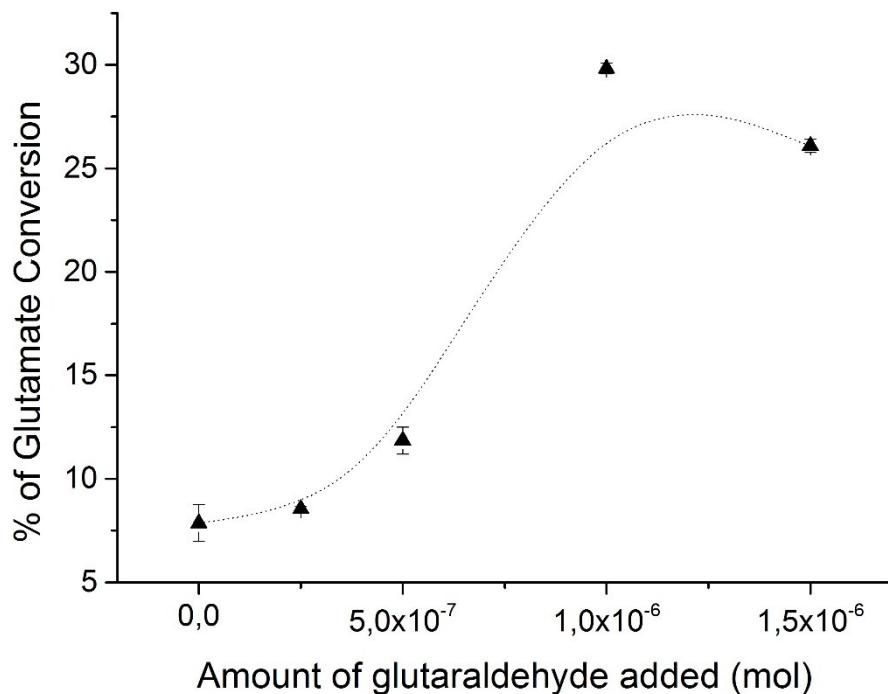
S3- Influence of the immobilization time for MagNP-APTS/GDH using 100 μL of a GDH solution 0.523 mg/mL (2U), 2mg of MagNP-APTS and $2,5 \times 10^{-7}$ mol of glutaraldehyde.



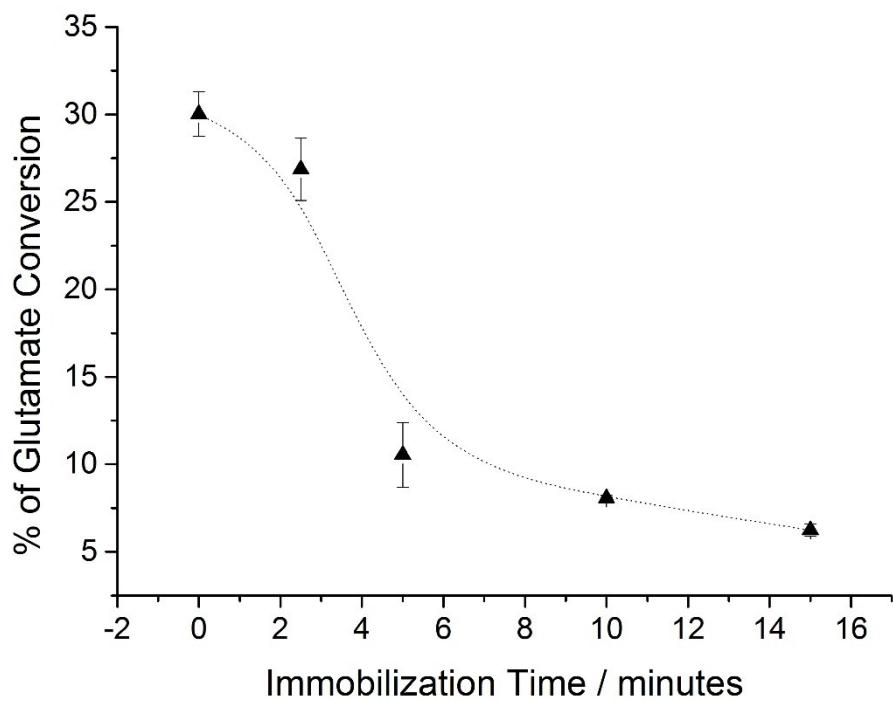
S4- Influence of the amount of MagNP@SiO₂-APTS added to 100 µL of a GDH solution 0.523 mg/mL (2U) and 1x10⁻⁶ mol of glutaraldehyde.



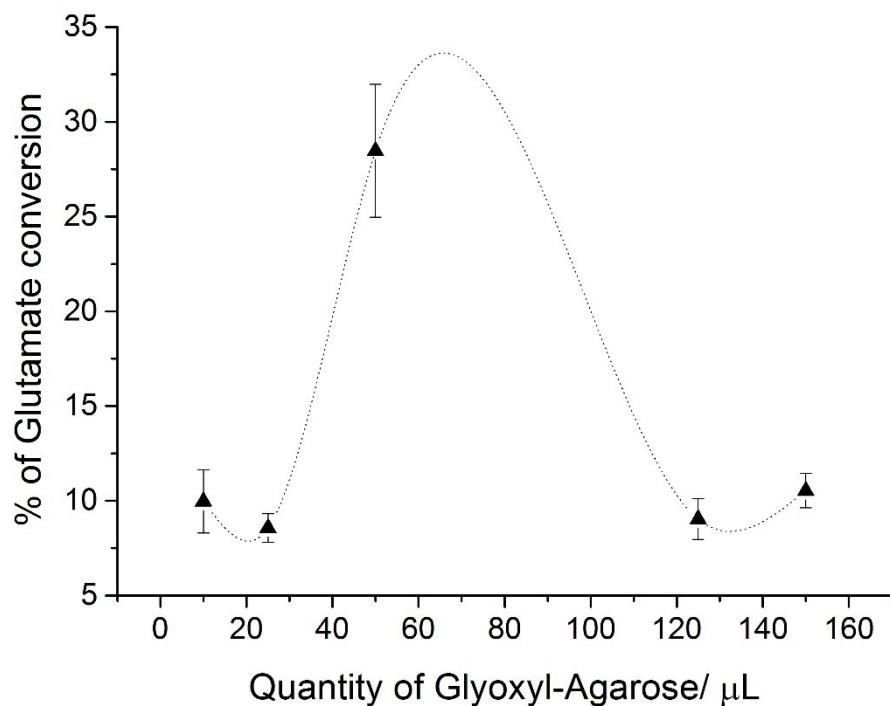
S5- Influence of the amount of glutaraldehyde added to 100 µL of a GDH solution 0.523 mg/mL (2U) and 1,2 mg of MagNP@SiO₂-APTS.



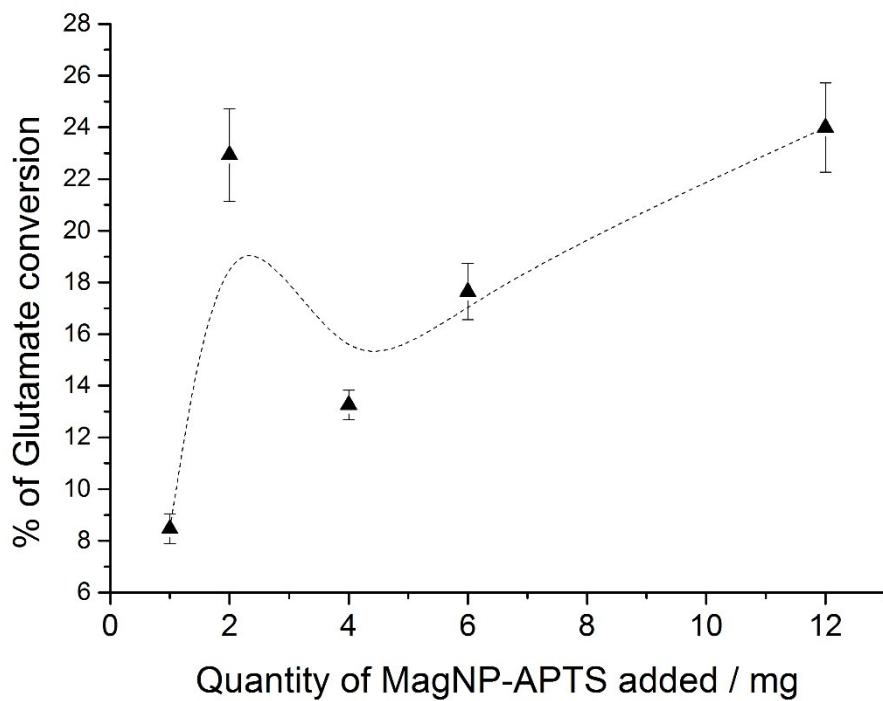
S6- Influence of the immobilization time for MagNP@SiO₂-APTS/GDH using 100 µL of a GDH solution 0.523 mg/mL (2U), 1,2 mg of MagNP@SiO₂-APTS and 1x10⁻⁶ mol of glutaraldehyde.



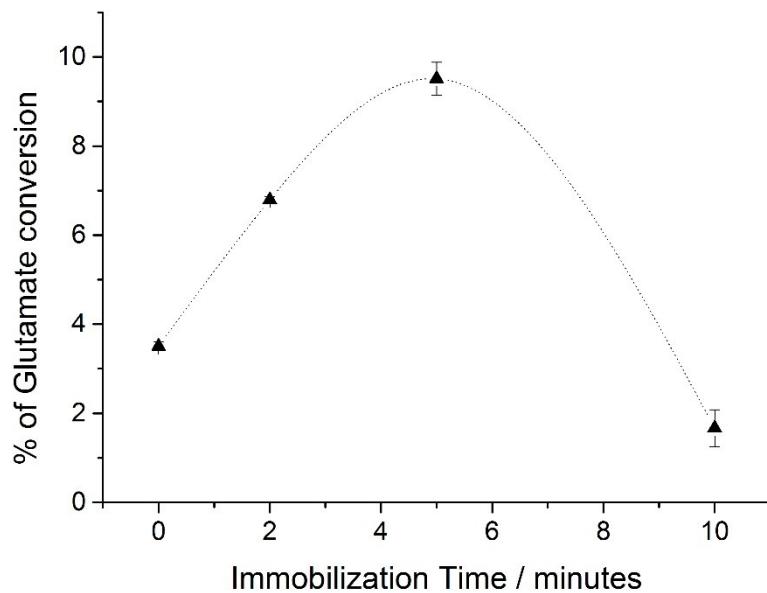
S7- Influence of amount of glyoxyl-agarose used for 100 μ L of a GDH solution 0.523 mg/mL (2U) and 2mg of MagNP-APTS.



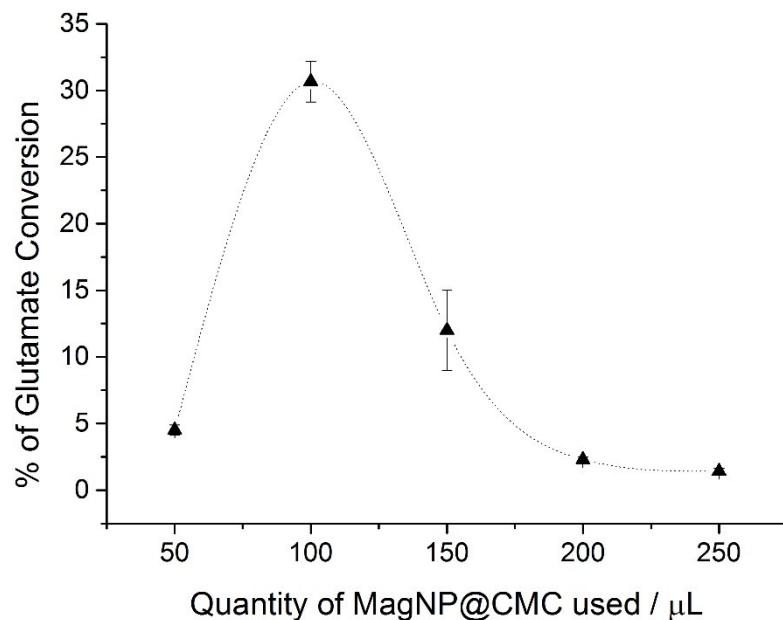
S8- Influence of the amount of MagNP-APTS used for the immobilization of 100 μ L of a GDH solution 0.523 mg/mL (2U) using 50 μ L of glyoxyl-agarose suspension (150 mg/mL).



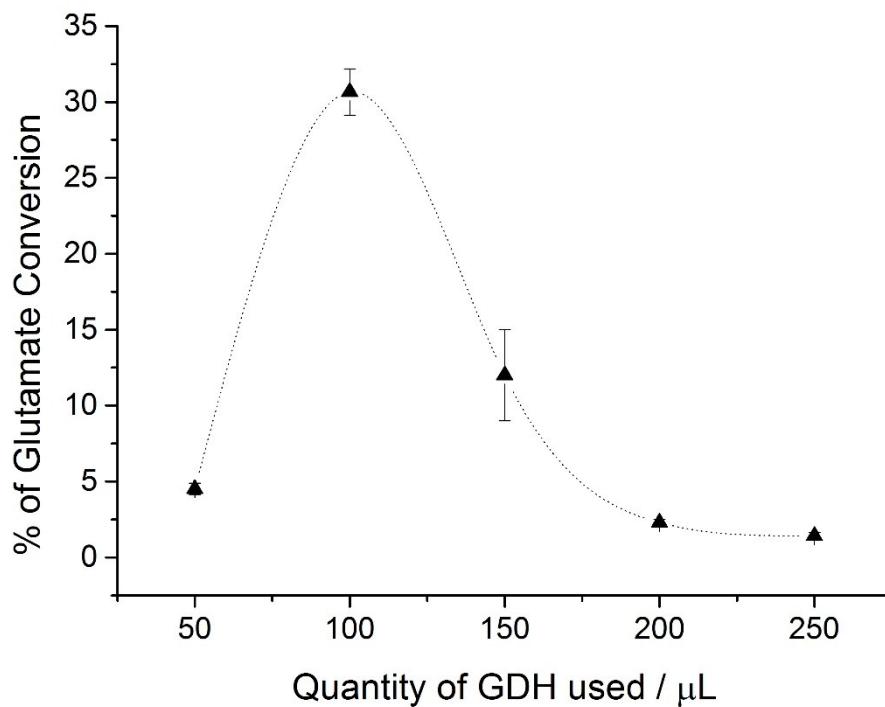
S9- Influence of the immobilization time using 100 μ L of a GDH solution 0.523 mg/mL (2U), 100 μ L of glyoxyl-agarose suspension (15.0 mg/mL) and 2 mg of MagNP-APTS.



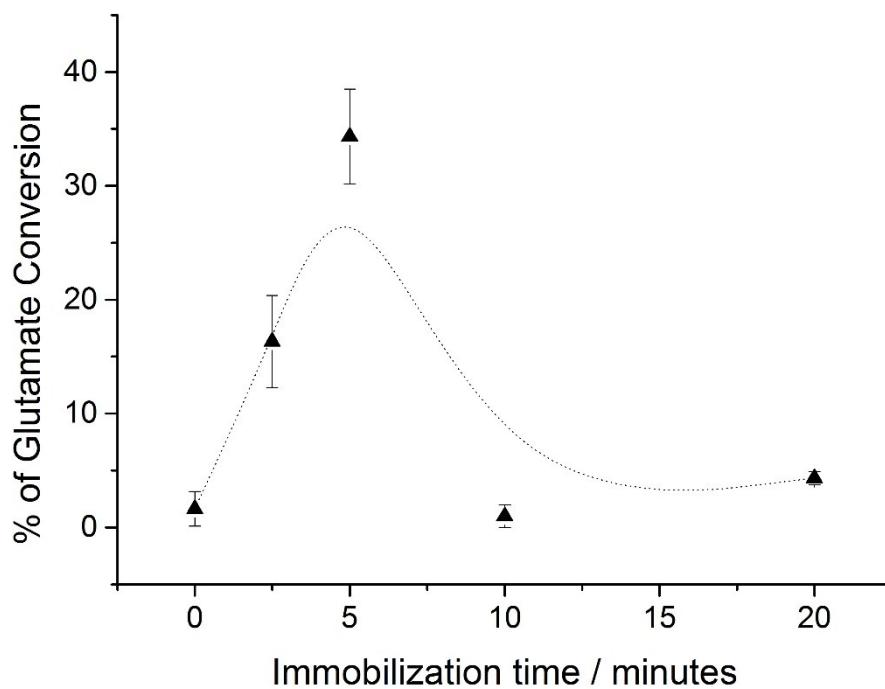
S10- Influence of amount of MagNP@CMC suspension (200 mg/mL) used for the immobilization of 100 μ L of a GDH solution 0.523 mg/mL (2U).



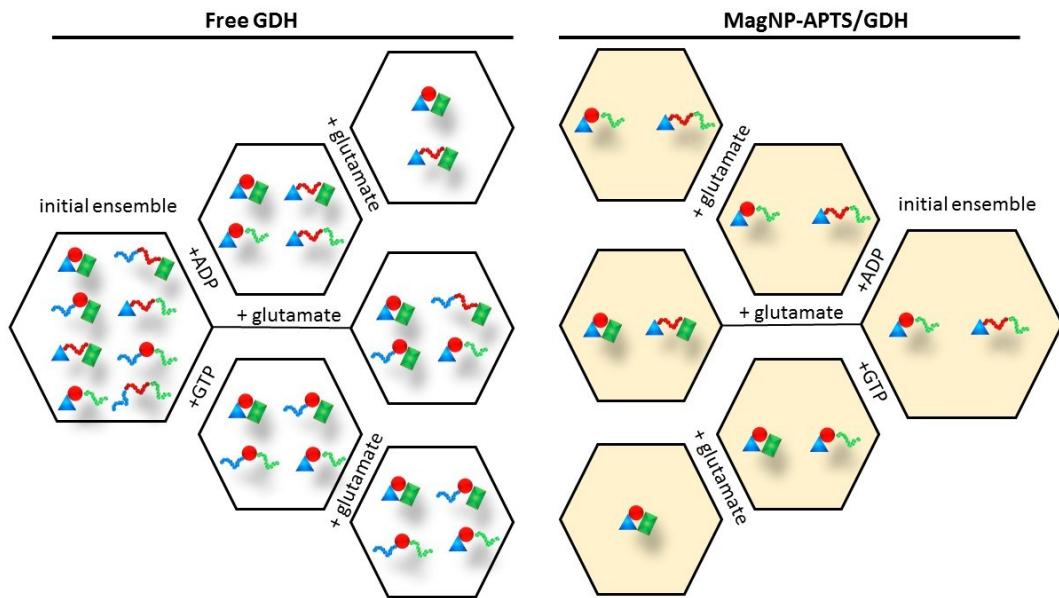
S11- Influence of the amount of GDH used for immobilization when employing 100 μ L of a MagNP@CMC suspension (200 mg/mL).



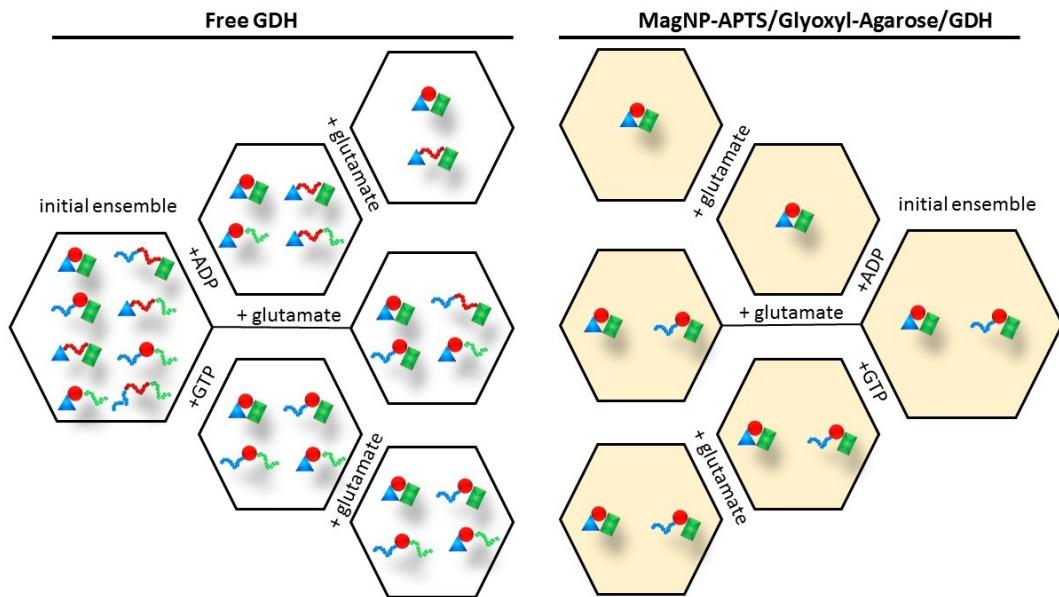
S12- Influence of immobilization time used for the immobilization of 100 μ L of a GDH solution 0.523 mg/mL (2U) in 100 mL of a MagNP@CMC suspension (200 mg/mL).



S13- Most Probable States ensemble comparison between free GDH and MagNP-APTS/GDH.



S14- Most Probable States ensemble comparison between free GDH and MagNP-APTS/Glyoxyl-Agarose/GDH.



S15- Most Probable States ensemble comparison between free GDH and MagNP@CMC/GDH.

