

Supplementary information for

Collagenase@magnetite: Proteolytic Composite for Magnetically Targeted Minimally Invasive Surgery

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Zeta-potential of a magnetite matrix

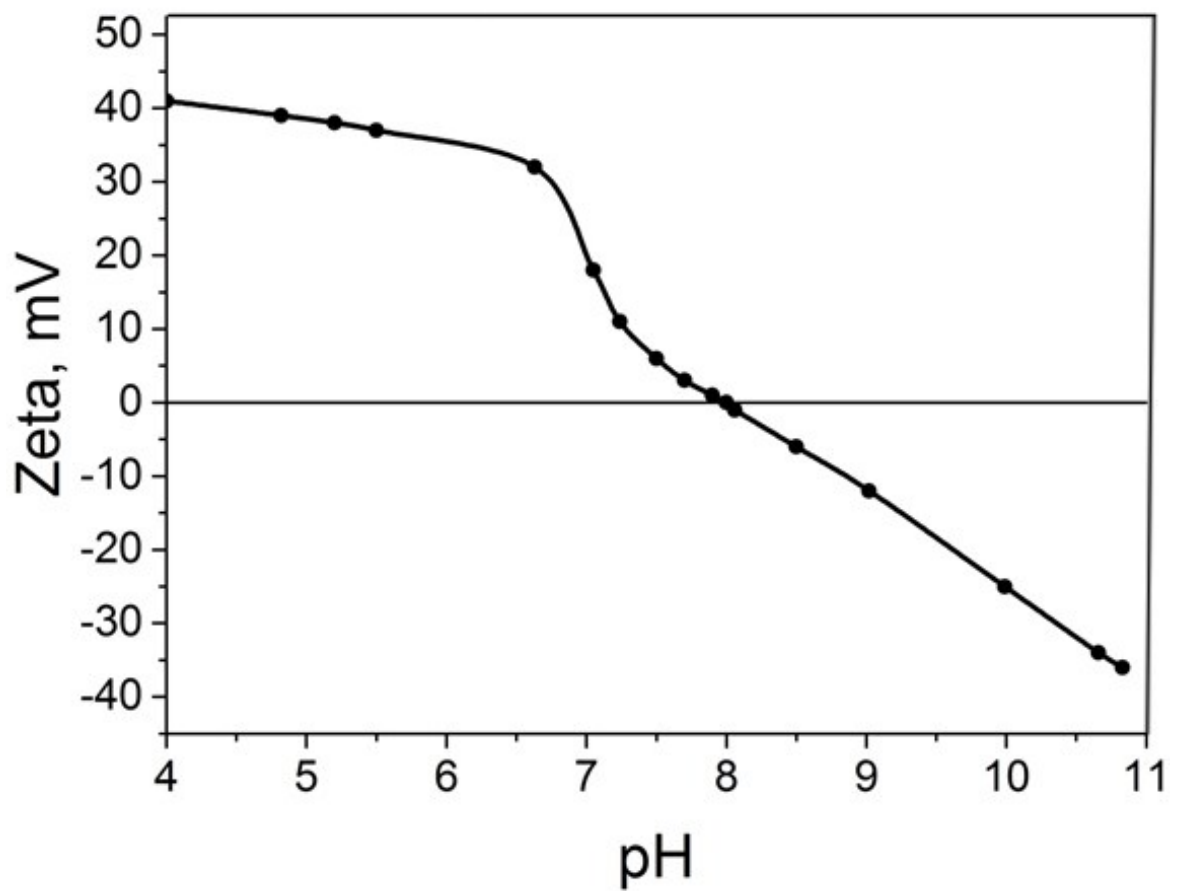


Figure 1S. Zeta potential of a magnetite matrix at different pH level.

It is seen that the isoelectric point (IP) of the material corresponds to a pH of 8 and at neutral pH values the material is positively charged and can interact with collagenase G molecules (having IP at pH of 5.9).

Isotherm of nitrogen adsorption and average pore diameter

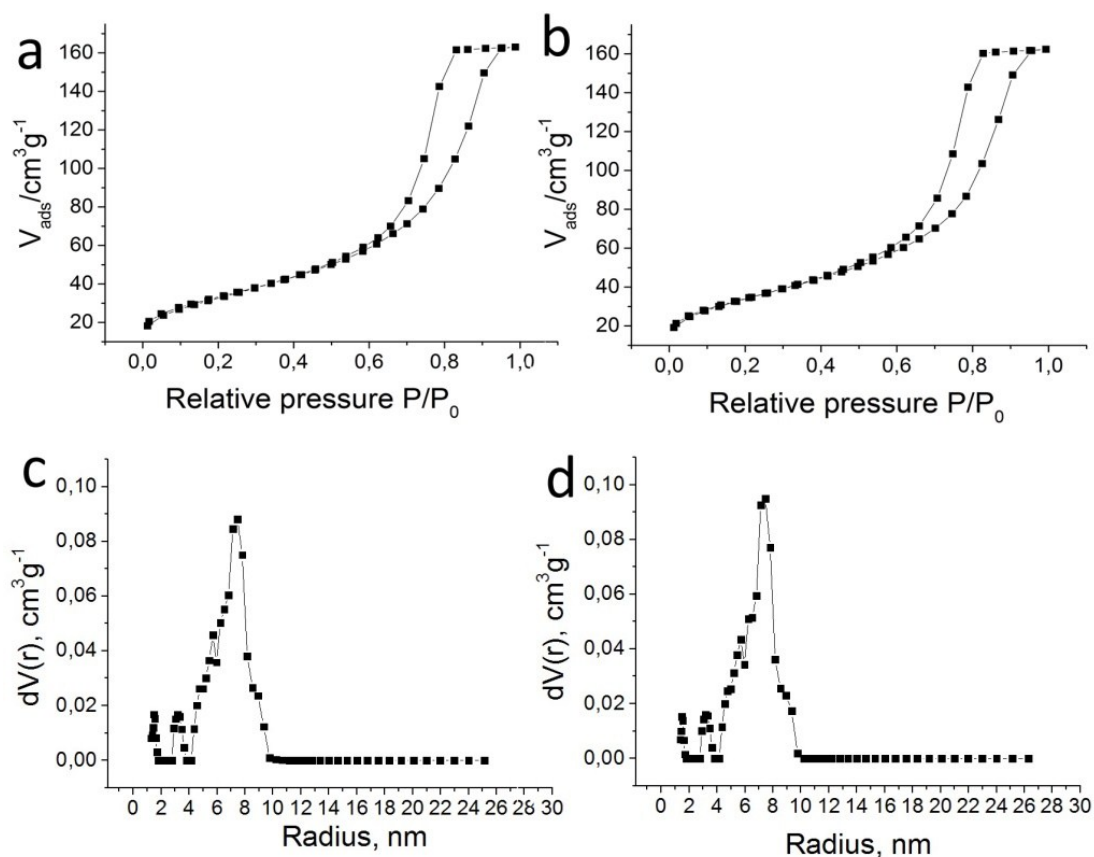


Figure 2S. Nitrogen adsorption-desorption isotherm for a magnetite matrix (a); nitrogen adsorption-desorption isotherm for a ColG@ferria proteolytic composite with 10 % wt. of collagenase (b); pore size distribution for a magnetite matrix (c); pore size distribution for a ColG@ferria proteolytic composite with 10 % wt of collagenase (d).