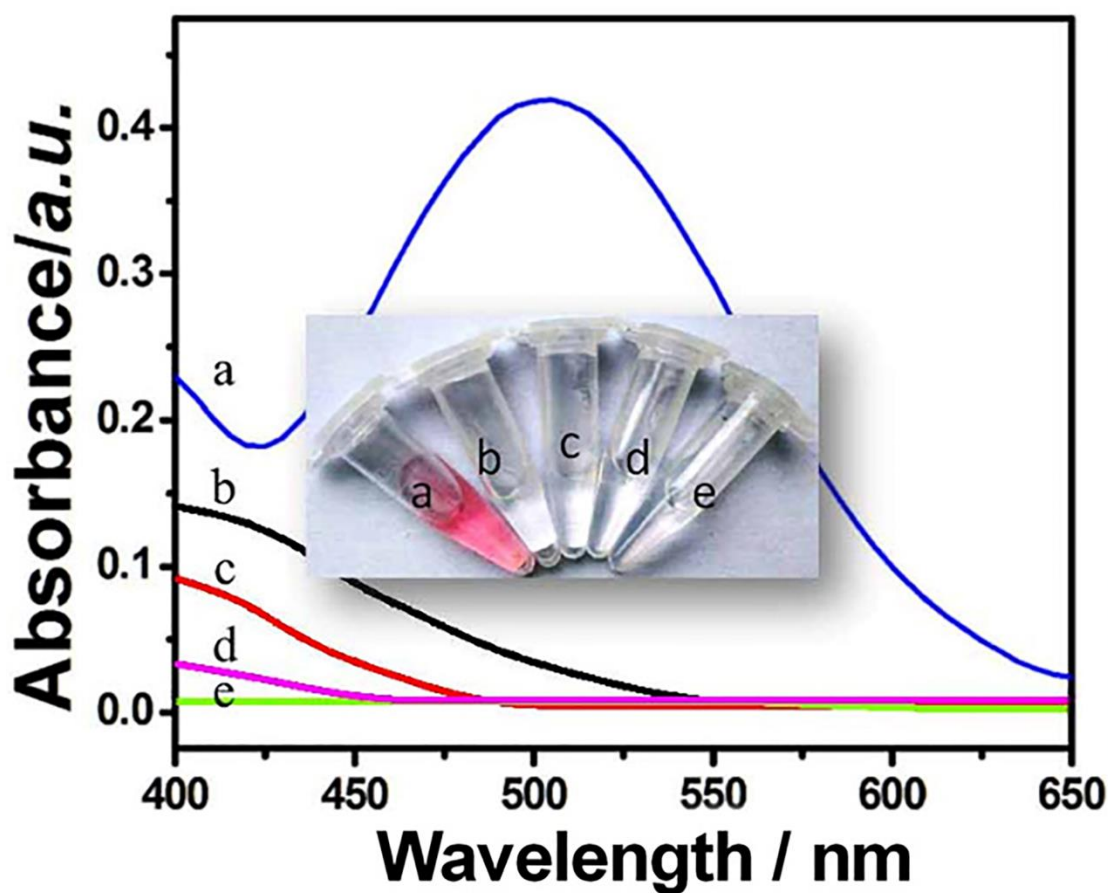


**A Novel Colorimetric Immunoassay of Ultrasensitive Alpha-Fetoprotein Sensing in Magnetic Bead-Based Mimic Enzyme-Chromogenic Substrate System**

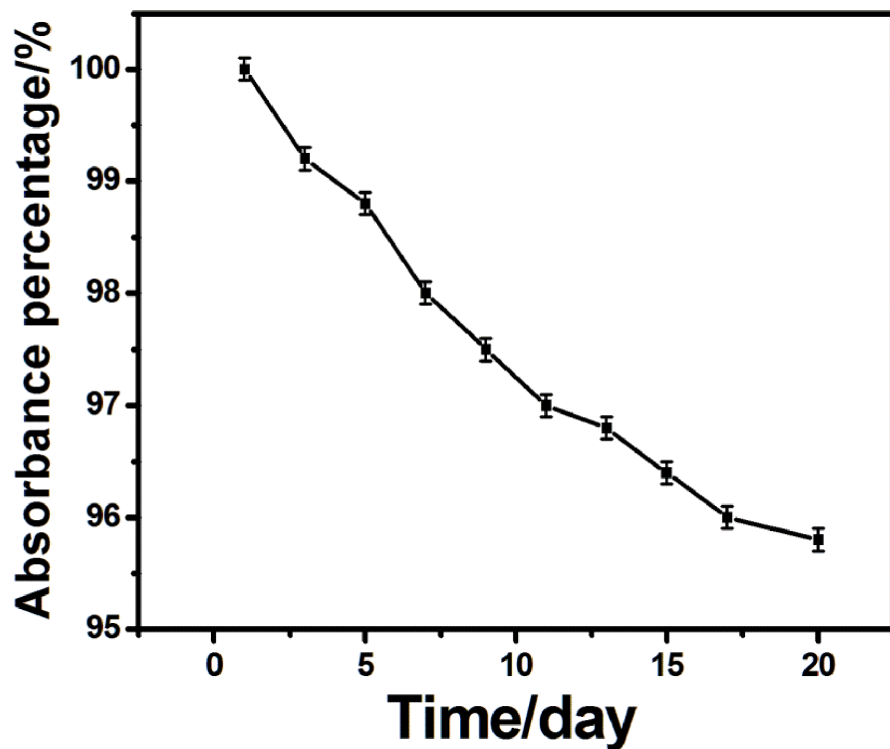
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**Figure S1.** UV-Vis absorption spectra of (a) GOx + glucose + hemin + 4-AAP/phenol system; (b) GOx + hemin + 4-AAP/phenol system; (c) GOx + glucose + hemin; (d) GOx + glucose + 4-AAP/phenol system; and (e) glucose + hemin + 4-AAP/phenol system (inset: corresponding photographs for curves (a), (b), (c), (d), (e)).

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**Figure S2.** The stability of the MECl.

**Table S1.** Comparison of serum sample AFP levels determined using two methods with immunosensor and chemiluminescence immunoassay (CLIA)

	Serum sample				
	1	2	3	4	5
Immunosensor / (ng mL <sup>-1</sup> )	2.53	10.62	30.85	150.25	205.58
CLIA / (ng mL <sup>-1</sup> )	2.38	10.91	32.35	147.05	201.99
Relative deviation / %	6.3	-2.66	-4.6	2.2	1.8