

Supporting information: Cu-Ethanolamine Nanozymes Promote Urushiol Oxidation of Lacquer

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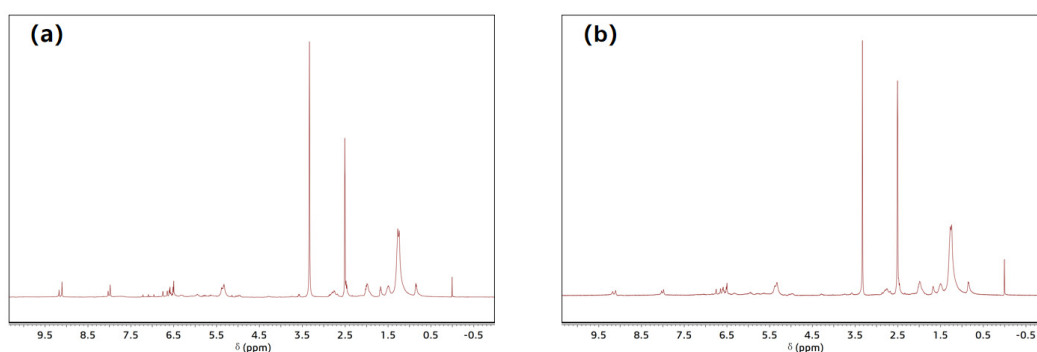


Figure S1. NMR of reaction of Cu-Ethanolamine nanozymes with raw lacquer before (a) and after filtration (b).

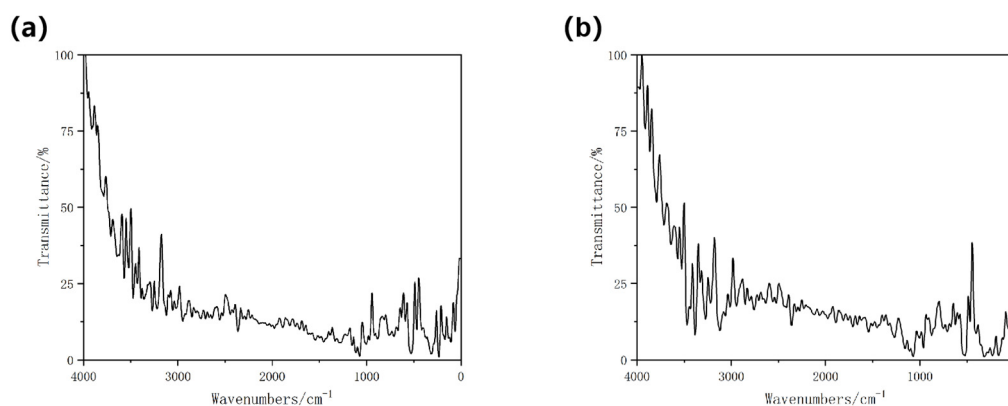


Figure S2. FTIR of reaction of Cu-Ethanolamine nanozymes with raw lacquer before (a) and after filtration (b).

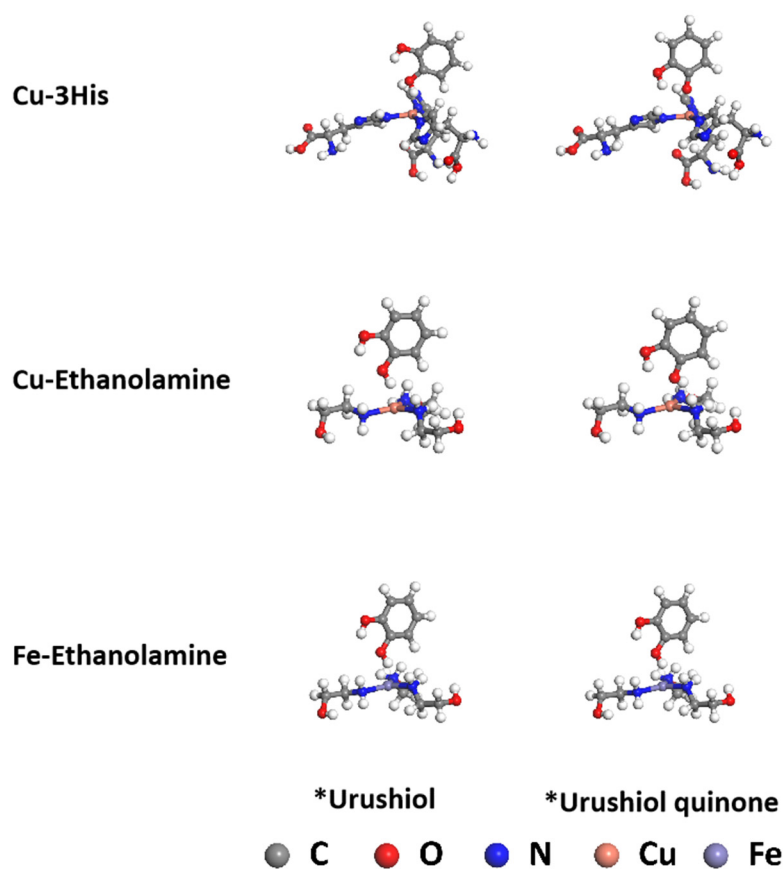


Figure S3. Adsorption models of urushiol and urushiol quinone on three structures..

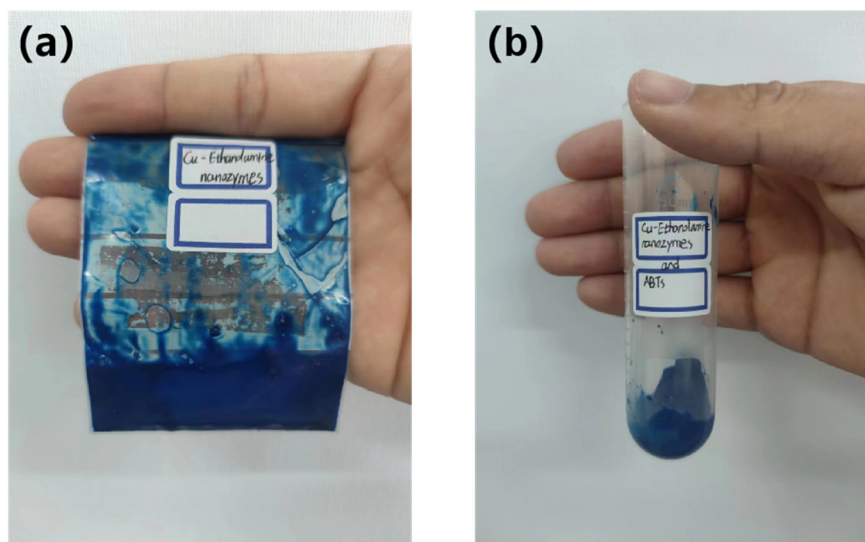


Figure S4. (a) Cu-Ethanolamine nanozymes and (b) Reaction of Cu-Ethanolamine nanozymes and ABTs.

Table S1. The adsorption energy of three structures for Urushiol and Urushiol quinone.

	*Urushiol	*Urushiol quinone
Cu-3His	-0.07 eV	-0.49 eV
Cu-Ethanolamine	-0.57 eV	-3.82 eV
Fe-Ethanolamine	-0.03 eV	-0.94 eV

Table S2. The adsorption energy of laccase and Cu-Ethanolamine for Urushiol and Urushiol quinone which calculated by DFT-D method.

	*Urushiol	*Urushiol quinone
Cu-3His	-0.52 eV	-0.91 eV
Cu-Ethanolamine	-0.74 eV	-4.32 eV