Supplementary Material

For

"Catalytic Activity Study of Laccase-like Copper-Gallic Acid; Colorimetric Determination of Norepinephrine and Degradation of Environmental Pollutant"

Ola G. Hussein[1*], Yara Mohamed [2], Noha Mostafa[2], Amr M. Mahmoud[2,3]

[1]*Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Future University in Egypt, Cairo, 11835, Egypt*
[2]*Department of Chemistry, School of Pharmacy, Newgiza University, Km. 22 Cairo-Alex Road, Giza P.O. Box 12577, Egypt*
[3]*Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy - Cairo University, Kasr El-Aini Street, ET-11562, Cairo - Egypt*

*Corresponding author email: ola.farag@fue.edu.eg

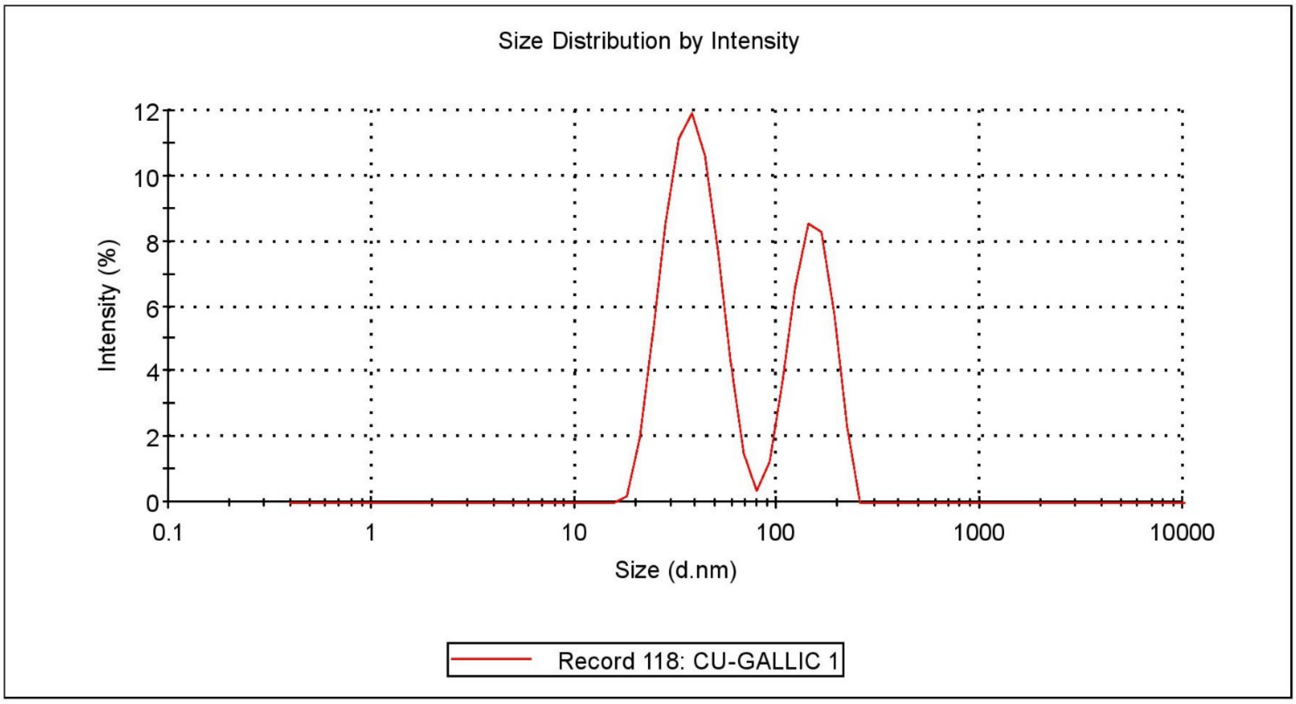

Fig. S1 Cu-Gallic acid particle size using dynamic light scattering (DLS).

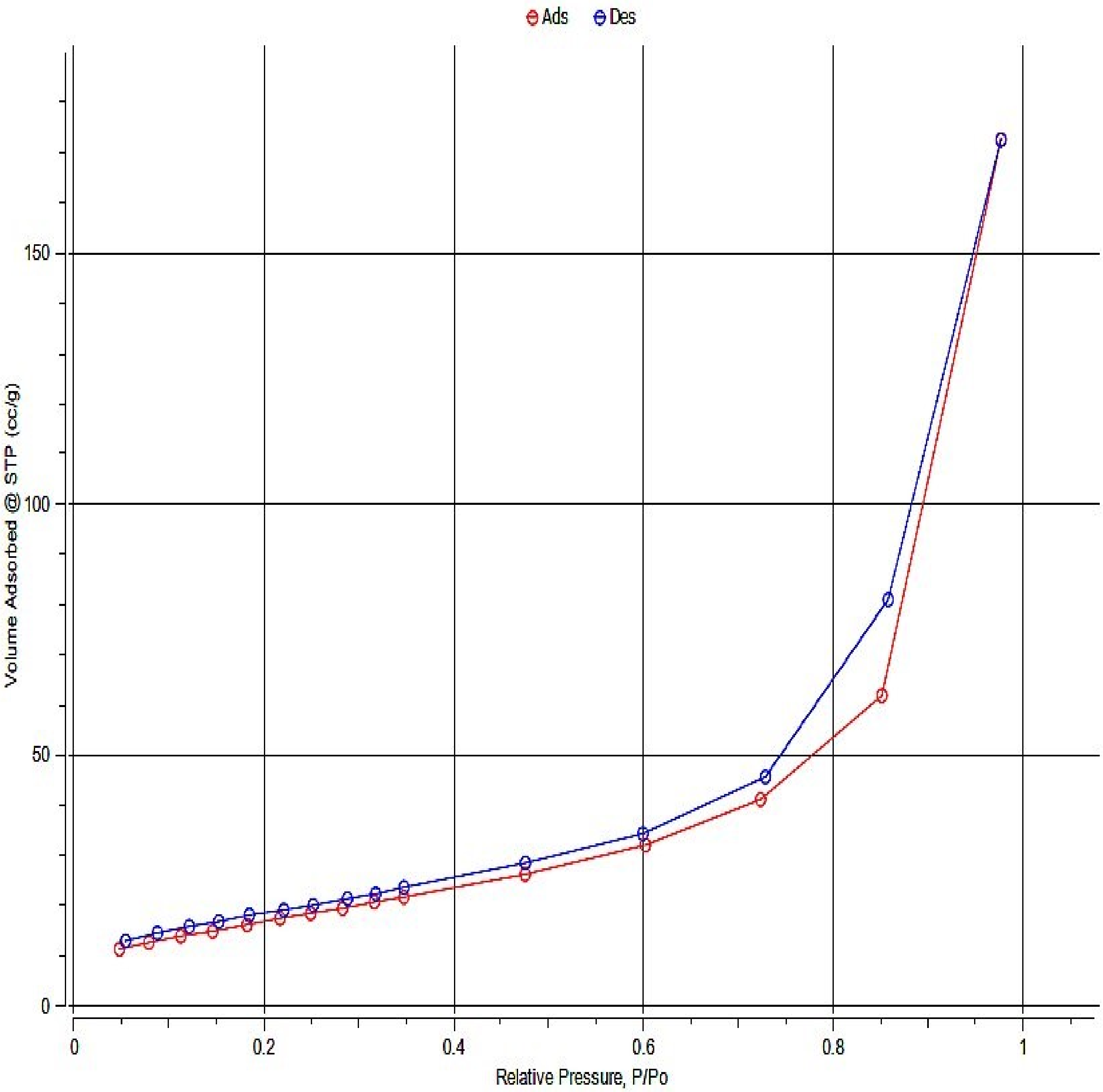

Fig S2. Nitrogen Adsorption-Desorption Isotherm of the Prepared Cu-gallic acid MOF.

Table S1: Porosity and Surface Area Analysis of the Prepared Cu-gallic acid MOF

Method	Surface Area (m^2/g)	Pore Volume (cc/g)	Pore Radius (nm)
BET (Multipoint)	1050.40	-	-
BET (Single-point)	1025.90	-	-
Langmuir Method	1480.30	-	-
BJH Adsorption	850.20	1.15	3.80
BJH Desorption	825.60	1.08	4.10
DH Adsorption	875.90	1.12	3.85
DH Desorption	840.50	1.05	4.00
DFT Method	1205.70	1.02	3.95