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Supporting Information

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An ultrasensitive electrochemical sensing platform based on silver

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nanoparticles anchored 3D reduced graphene oxide for rifampicin

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detection

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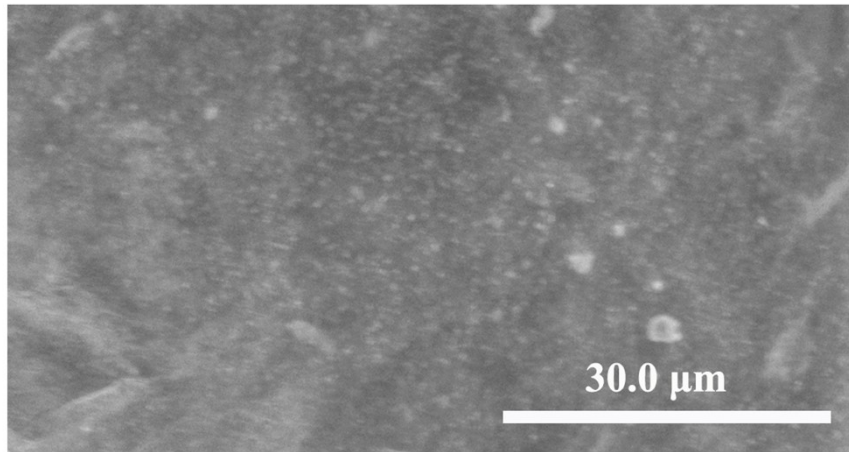
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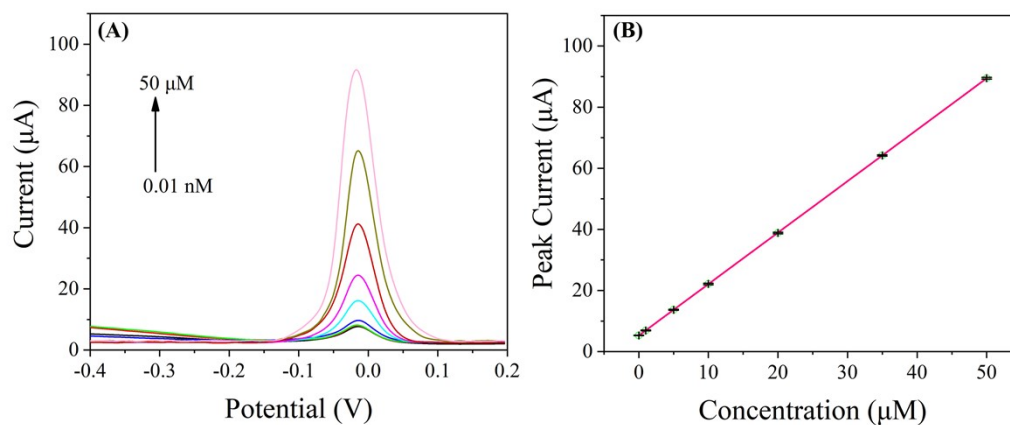
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Fig. S1. The SEM image of Ag NPs/GO composites.



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2 **Fig. S2.** (A) DPV responses for different concentration RIF of human blood samples
3 in 0.1 M PBS (pH 7.0) ; (B) The calibration curve of I_p and RIF concentrations.

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1 **Table S1.** Comparison of fabricated sensors with other reported sensors.

Modified electrode	Method	Linear range/(μM)	LOD /(μM)	Ref.
Ni(OH) ₂ /RGO ^a /GCE	LSV ^b	0.004-10.0	0.0023	1
BV ^c /SPCE	LSV	0.2-310	0.014	2
PMel-Aunano ^d /GCE	LSV	0.08-15.00	0.03	3
MWCNTs ^e -Mo ₂ C-GCE	DPV	0.5-74	0.09	4
Au/PVP-AgNPs/PANSA ^f /EG-CYP2E1 ^g	DPV	2-14	0.05	5
Pencil graphite electrode	DPASV ^h	0.019-1.19	0.013	6
ZrO ₂ @chitosan/GCE	DPV	0.015-547.4	0.0075	7
TiO ₂ /rGO/GCE	DPV	0.01-0.1 (nM)	0.03	8
SPIONs-CNTs ⁱ /GCE	i-t ^j	0.02-0.06	1.178	9
Ag NPs/3D rGO/GCE	DPV	0.01 nM-45 μM	0.810 nM	this work

2 ^a Reduced graphene oxide; ^b Linear sweep voltammetry; ^c BiVO₄ microspheres; ^d gold
3 nanoparticles/poly-melamine nanocomposite; ^e Multiwalled carbon nanotubes; ^f
4 polyvinylpyrrolidone/silver nanoparticles/poly(8-anilino-1-naphthalene sulphonic acid; ^g
5 cytochrome P450-2E1; ^h Differential pulse adsorptive stripping voltammetry; ⁱ Iron oxide carbon
6 nanotubes; ^j Amperometry.

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