SUPPORTING INFORMATION

$ZnZrO_2$ Adorns Graphitic Carbon Nitride (g-C_3N_4) On Laser-Induced Graphene Electrode as an Electrochemical Sensor for Detection of *Ractopamine* in Meat Samples

R. Ganapathi Raman[a,b*], M. Muhammed Shameem[a], P. Kavitha[c], C. Sankar[d] and S. R. Kalaivani[e]

[a]Department of Physics, Noorul Islam Centre for Higher Education, Kumaracoil -629 180, Thuckalay, Tamil Nadu, India.
[b]Department of Physics, Saveetha Engineering College (Autonomous), Chennai - 602 105, Tamil Nadu, India.
[c]Department of Physics, Sona College of Technology (Autonomous), Salem-636 005, Tamil Nadu, India.
[d]Department of Chemistry, Velammal College of Engineering and Technology, Madurai-625 009, Tamil Nadu, India.
[e]Department of chemistry, SNS College of Technology, Coimbatore – 641035, Tamil Nadu, India.

*Corresponding Author: R. Ganapathi Raman, E. Mail id – ganapathiraman83@gmail.com

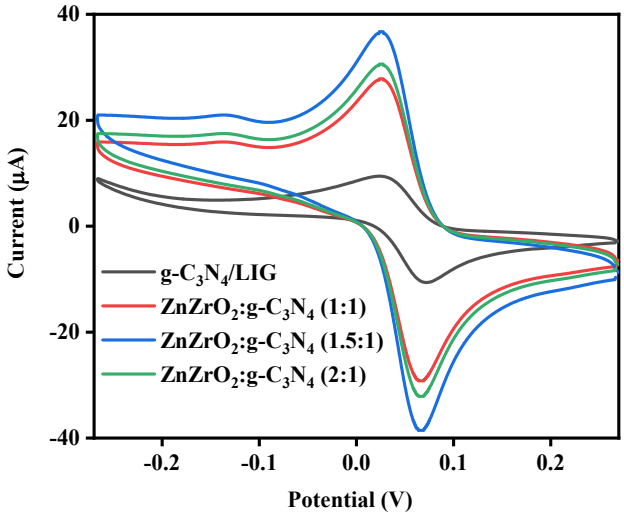

Figure S1. CVs of $ZnZrO_2$@g-C_3N_4. different composition of $ZnZrO_2$ and g-C_3N_4 at the scan rate of 50 $mV \cdot s^{-1}$ in 5 mM $K_3[Fe(CN)_6]$ solution at 1:1, 1.5:1 and 2:1 of $ZnZrO_2$:g-C_3N_4.

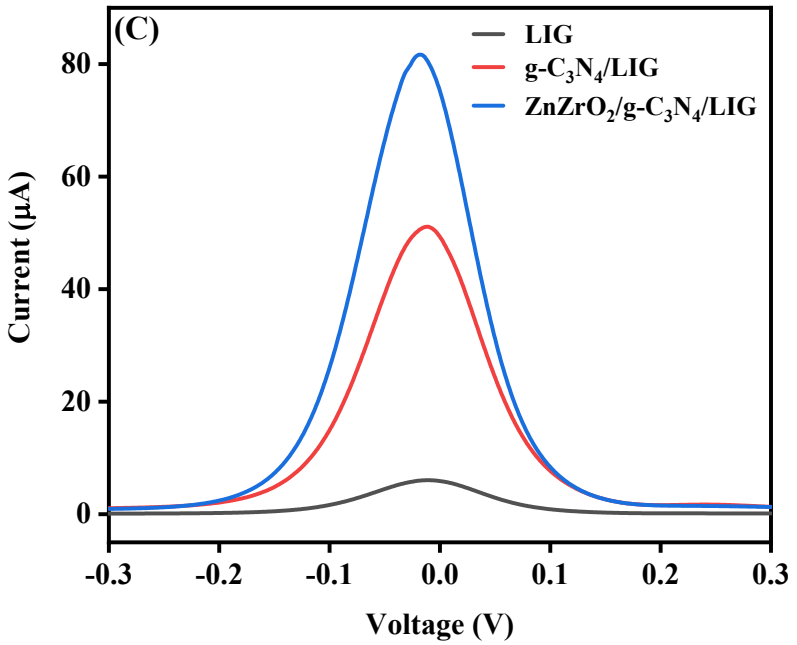

Figure S2. DPV recorded at different electrodes.

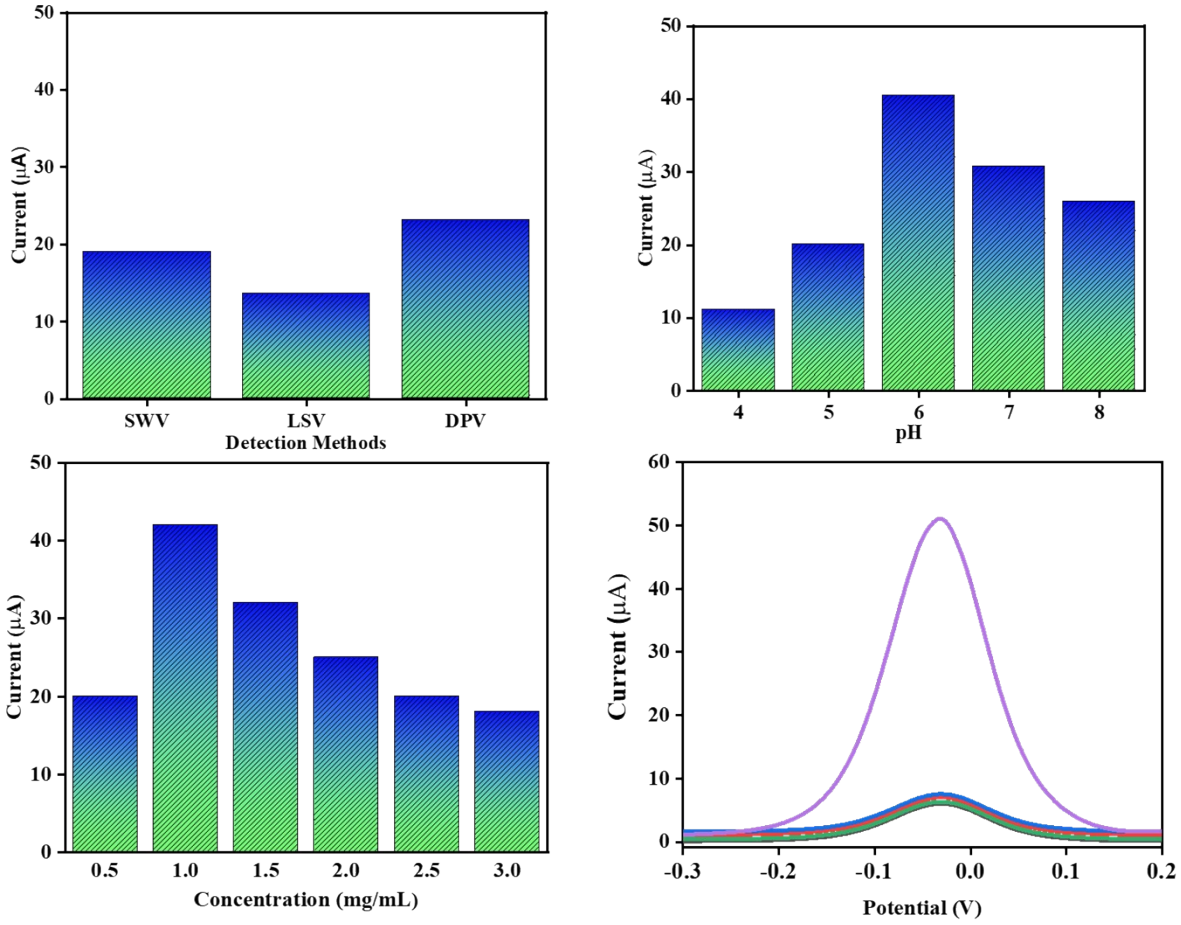

Figure S3. Electrochemical measurements and optimization conditions (A) Different Techniques, (B) Effect of pH, (C) Effect of Concentration of electrode material, (D) Effect of Potential