**Tables**

**Table 1.** Recovery values (n = 3) for L-tyrosine additions in urine and tap water samples.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sample (n=3)** | **Added (mol L−1)** | **Found (mol L−1)** | **Recovery (%)** |
| Tap Water | 5.0 | 5.62 ± 0.07 | 112.4 ± 7.06 |
| 7.0 | 6.75 ± 0.22 | 96.5 ± 2.79 |
| Synthetic urine | 5.0 | 5.33 ± 0.06 | 106.7 ± 5.56 |
| 30.0 | 28.8 ± 0.04 | 95.9 ± 2.58 |
| 20.0 | 19.2 ± 0.11 | 96.2 ± 4.00 |

**Table 2.** Analytical performance of Au-NP-GP/AS sensor for L-tyrosine determination compared with the literature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Electrode** | **Technique** | **LDR (μmol L1)** | **LOD**  **(μmol L1)** | **Sample Application** | **Refs.** |
| 2D-MoS2-AuBSPE | CV | 10 to 500 | 0.5 | Commercial food integrator | [32] |
| AuNPs/MWCNT/GCE | DPV | 0.4 to 80.0 | 0.21 | Blood serum and pharmaceutical | [33] |
| MWCNTs-Nafion/GCE | DPV | 2 to 120 | 0.8 | Human serum | [34] |
| B.P.Tyr/M/SN-MPTS/SPE | DPV | 0.05 to 600 | 0.02 | Human plasma | [35] |
| β-CD modified gold electrode | DPV | 36 to 240 | 12 | Pharmaceutical formulations | [37] |
| MIP-polypyrrole modified gold electrode | SWV | 0.005 to 0.025 | 0.0025 | Human plasma | [36] |
| **Au-NP-GP/AS** | **SWV** | **0.1 to 70** | **0.09** | **Tap water and synthetic urine** | **This Work** |

**LDR**: Linear dynamic range; **2D-MoS2-AuBSPE:** Exfoliated 2D-MoS2 nanosheets on carbon and gold screen printed electrodes; **Pt–ZnO/CNTs/GCE:** Glassy Carbon Electrode Amplified with a nanocomposite of zinc oxide-Platinum/carbon nanotubes; **AuNPs/MWCNT/GCE:** gold nanoparticles/multiwalled carbon nanotube nanocomposite modified glassy carbon electrode; **MWCNTs-Nafion/GCE:** processed MWCNTs and Nafion on a glassy carbon electrode; **B.P.Tyr/M/SN-MPTS/SPE:** graphite screen printed electrode modified with a paper disc doped with 3-mercaptopropyl trimethoxy silane-functionalized silica nanoparticles and banana peel tissue; **β-CD modified gold electrode:** β-cyclodextrins on a gold electrode; **MIP-polypyrrole modified gold electrode**: molecularly imprinted polypyrrole modified gold electrode;