

**ELECTRONIC SUPPLEMENTARY INFORMATION**

**CaCuSi<sub>4</sub>O<sub>10</sub>/GCE electrochemical sensor for detection of norfloxacin in  
pharmaceutical formulations**

Gregarious Muungani, and Werner E. van Zyl\*

School of Chemistry and Physics, University of KwaZulu-Natal, Westville Campus, Durban,  
4000, South Africa.

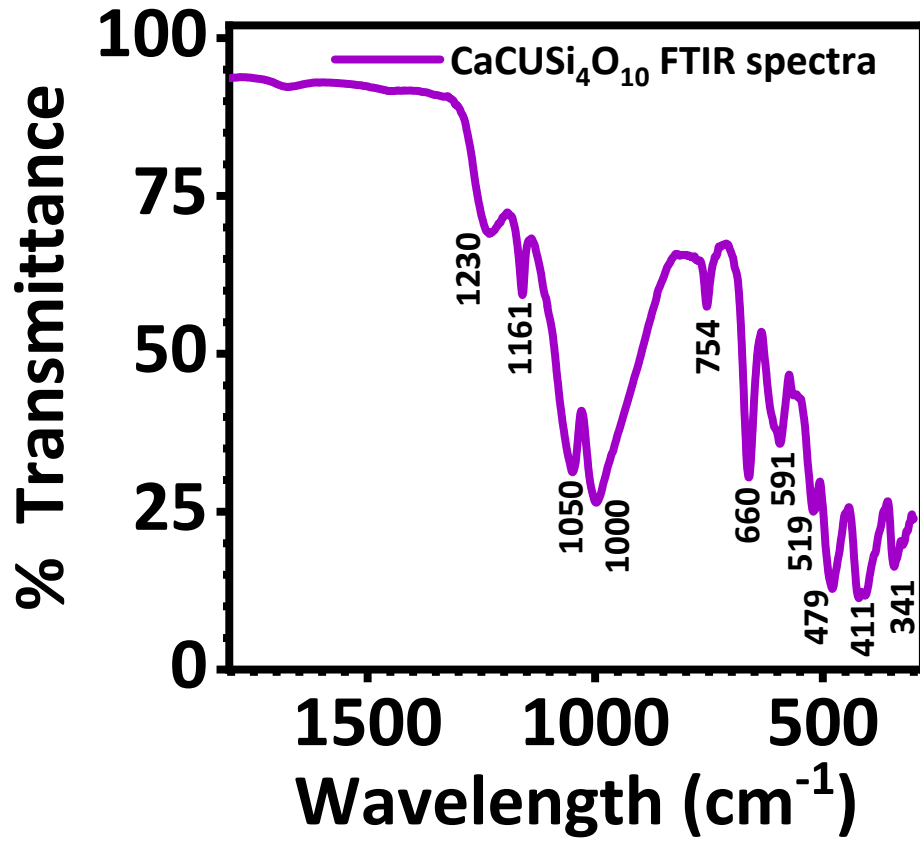


Fig. S1. FTIR spectra of  $\text{CaCuSi}_4\text{O}_{10}$ .

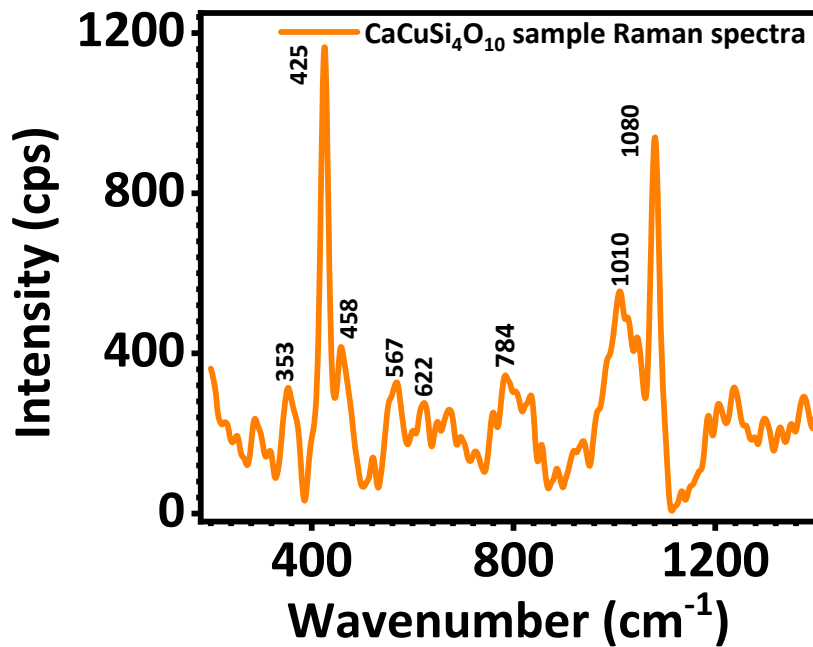


Fig. S2. Raman spectra of  $\text{CaCuSi}_4\text{O}_{10}$ .

**Table S1**Results obtained for Utin-400 at MnO<sub>2</sub> doped CaCuSi<sub>4</sub>O<sub>10</sub>/GCE modified electrode.

<b>S No</b>	<b>Expected (μM)</b>	<b>Detected (μM)</b>	<b>Recovery</b>	<b>Bias (%)</b>	<b>RSD (%) (n=3)</b>
1	10	10.0135	100.1	0.135	0.48
2	20	19.6863	99.9	1.6	0.62
3	30	30.685	102.3	2.28	0.17
4	40	40.586	101.5	1.5	0.36
5	50	50.692	101.4	1.4	0.89
6	70	71.62	102.3	0.9	0.53
7	80	78.483	98.1	1.9	1.04