Supplement

A high efficiency SERS platform based on 3D porous PPDA@Au

NPs as substrate for detection of pesticide on vegetables

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E-mail address: heyi04191@163.com; wcj452947@163.com; xajunluo@hotmail.com.
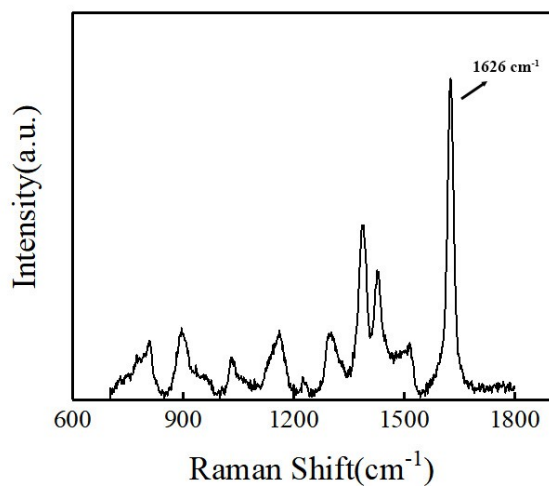
1. The Raman spectrum of TB

Figure S1. The Raman spectrum of TB.

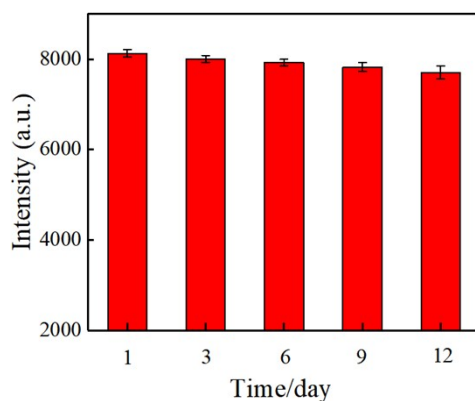2. The storage stability of the proposed PPDA@Au NPs SERS platform.

Figure S2. The storage stability of the proposed PPDA@Au NPs SERS platform.

3. Table S1. Comparison with literature for 2,4-D study by SERS and other methods.

Detection method	Real sample	recovery	Reference
High-performance liquid chromatography	Water samples	95.58%-115%	1
SERS	Tea	103.3%-111.1%	2
Spectrophotometric	Mineral water	96%-113%	3
electrochemical impedance spectroscopy	toothpaste	98.8%-107%	4

| SERS (this work) | Water samples | 97.42%-103.7% | This work |

Reference

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