

SUPPLEMENTARY DATA

Figure S1. Comparison of structures and Raman spectra of PDE5Is obtained with reference standard powder of SIL, VAR and TAD at 632.8 nm excitation

Figure S2. TLC-SERS detection of VAR and TAD at 0.2 to 2 mg/mL

Figure S3. Detection of PDE5Is adulteration in real herbal samples by LC-MS/MS - Chromatograms of VAR and TAD adulterated in sample 04 (a) and TAD and SIL adulterated in sample 09 (b); mass spectrum equivalent to VAR (c) and TAD (d)