

**(e)**

**(d)**

**(c)**

**(b)**

**(a)**

Figure 6. Comparison of Raman spectra of L-Trp experimental: (a) NR spectrum of L-Trp aqueous solution; (b) NR spectrum of solid; (c) calculated Raman spectrum zwitterion; (d) calculated Raman spectrum of anionic form; (e) calculated Raman spectrum of cationic form