

Review of: "Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts"

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Potential competing interests: No potential competing interests to declare.

In the review carried out of the work entitled "Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts". The spaces in the different paragraphs in each line and with each word must be taken care of. In the chemical section, although the spectra are analyzed of infrared in a table, these should be put together with the NMR analysis in the spectral section of each compound, indicating to which functional group each band belongs; and although the NMR results were done and put, it would be good to complement it with an analysis elemental or high resolution mass spectrometry to provide a more solid and convincing work. As an example, compound 8 is proposed.

Compound (8)

3277(OH), 1695(C=O, Carboxylic), 1665(C=O, Amidic), 1650(C=N, 1540(C=C, Aliphatic), 1530(C=C, Aromatic), 1315(C-O), 1284(C-N); ¹HNMR(300 MHz, DMSO-d₆, δppm): 13.11(s, 1H, COOH), 8.06(s, 1H, NH), 7.70-7.62(m, 4H, Ar-H), 7.50-7.44(m, 6H, ArH), 5.33(br.s, 1H, CH), 5.09-5.01(m, 3H, olefenic CH), 4.74-4.69(m, 1H, CH), 3.64(d, 1H, J=6.6Hz, CH), 3.26-2.18(m, 2H, S-CH₂), 2.56-2.49(m, 4H, CH₂), 1.68(s, 3H, CH₃); ELEMENTAL ANALYSIS OR HIGH RESOLUTION MASSES.