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Supplementary Materials

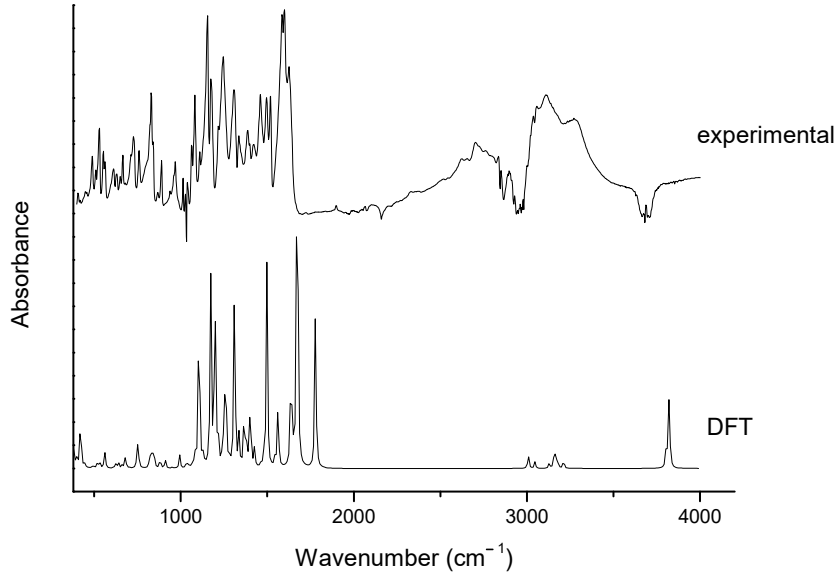


Figure S1. Calculation (DFT) and experimental IR absorption spectra of NAR at room temperature.

Table S1. Selected characteristic vibronic features of curcumin theory with application of 6-31G(d,p) basis and experiment bands of NAR. s-stretching, b-bending, w-wagging, r-rocking, t-twisting, def. - deformation.

Calculation (cm^{-1})	Experiment (cm^{-1})	Band Assignment
562	563	Def. all molecule
751	759	C-H w
832	831	C-H w
1030	1038	C-H w
1070	1063	CH_2 t + C-O s
1082	1081	C-C s
1105	1109	C-O s
1172	1154	C-H r + C-O-H b
1201	1175	C-H r + C-O-H b
1259	1245	C-H r + C-O s + CH_2 t + C-O-H b
1426	1421	C-O s
1498	1496	H-C=C b
1563	1600	C=C s
1779	1626	C=O s
3007	2900	C-H s
3046	3035	C-H s
3166	3115	C-H s
3805	3688	O-H s