Electronic Supplementary Information (ESI)

Pullulan/poly(vinyl alcohol) hydrogels loaded with *Calendula officinalis* extract: design and in vitro evaluation for wound healing applications

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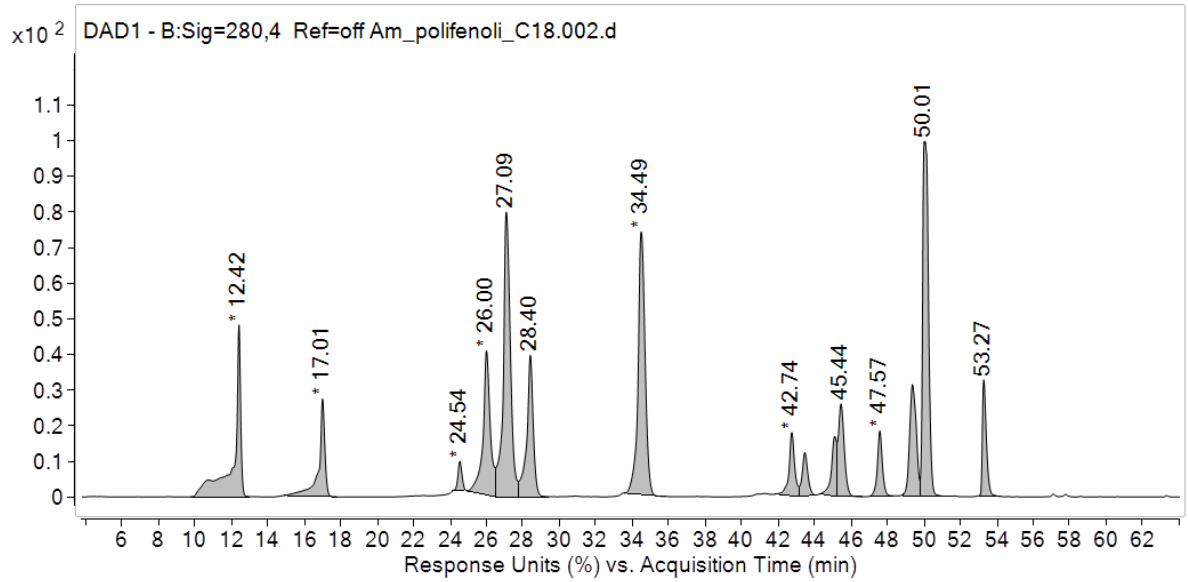

Figure S1. HPLC-DAD chromatogram (wavelengths of 280 nm) for standard mixture containing 16 phenolic compounds (gallic acid, 3,4 DHB, chlorogenic acid, vanillic acid, caffeic acid, syringic acid, p-coumaric acid, cinnamic acid, cynarin, quercetin 7-rhamnoside, luteolin 7-o-glucoside, isoquercetin, apigenin 7-glucoside, kaempferol 7-O-glucoside, fisetin, quercetin).

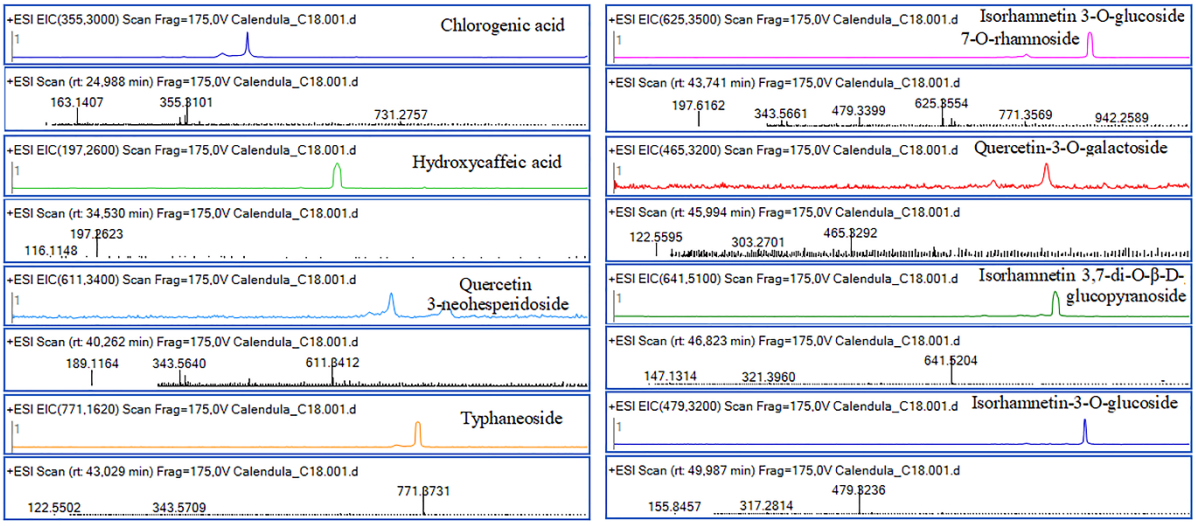

Figure S2. ESI(+) MS extracted ion chromatograms (EIC) and relevant mass spectra for some detected phenolic compounds in *Calendula officinalis* extract.

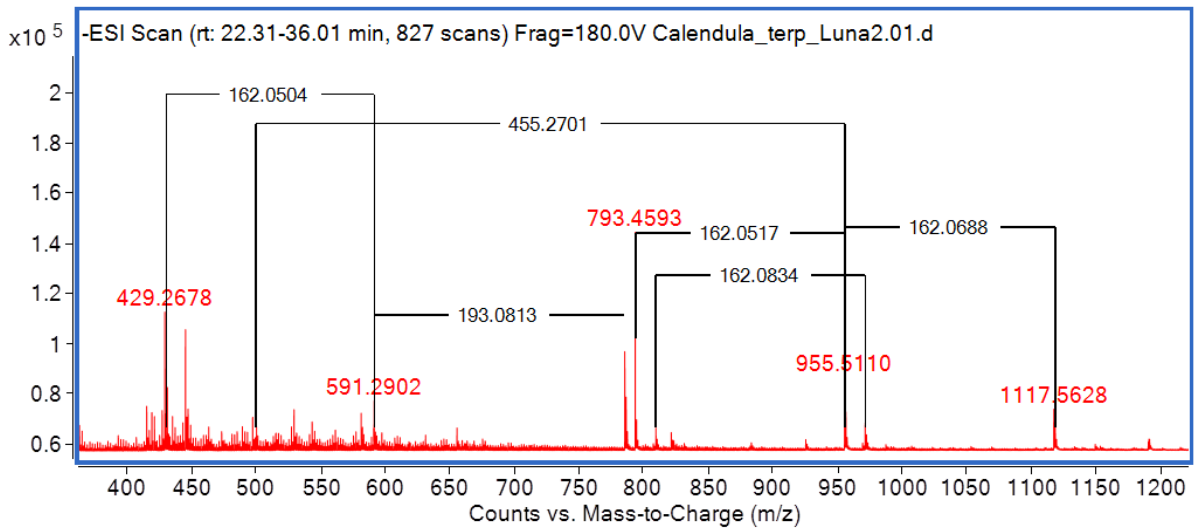

Figure S3. Representative ESI(-) mass spectrum for identified triterpenes: oleanolic acid glucuronide D (m/z 793), oleanolic acid glucuronide C (m/z 955), and oleanolic acid glucuronide A (m/z 1117). Loss of: hexose (162 Da), hexuronic acid (193 Da), oleanolic acid (455Da).

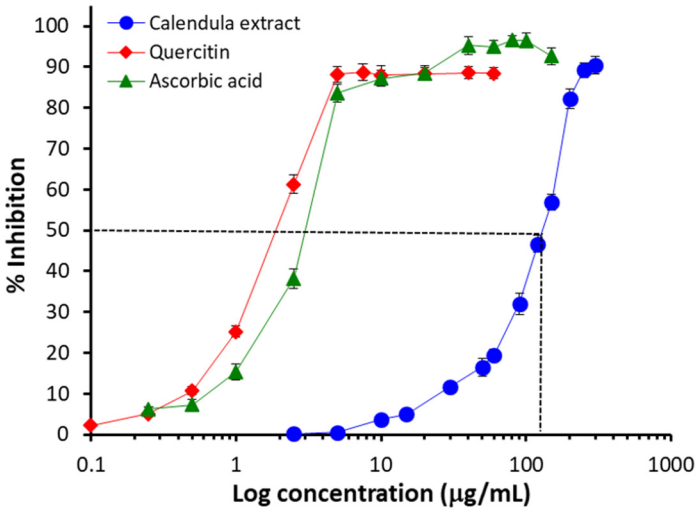

Figure S4. DPPH radical scavenging and estimation of IC_{50} value of *Calendula officinalis* extract, quercetin and ascorbic acid.

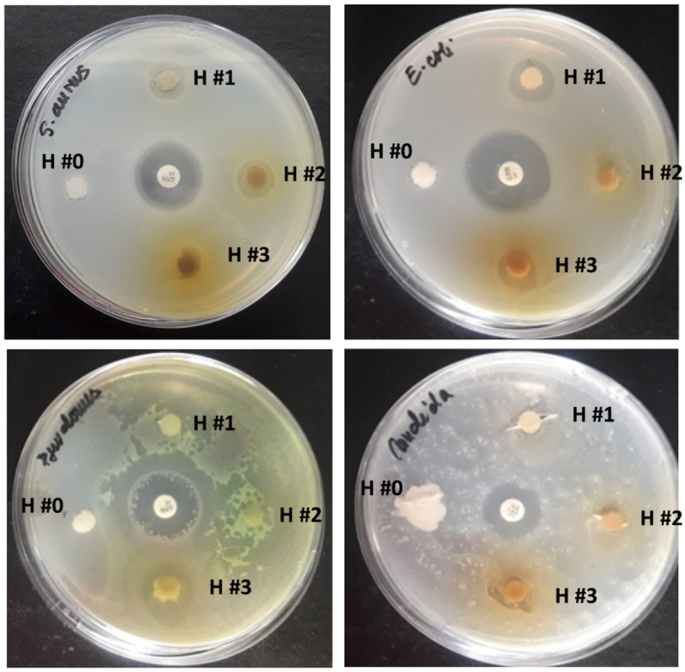

Figure S5. Antibacterial activity of unloaded and *Calendula officinalis*-loaded P/PVA hydrogels against *S. aureus*, *E. coli*, *P. aeruginosa* and *C. albicans* through well diffusion assay.