**Supplementary Information**

**Comparative chemical profiling and biological potential of essential oils of a petal, choke and heart parts of *Cynara scolymus* L. head**

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Table S1: Instrumental setting (ELAN-9000, Perkin Elmer) for the ICP-MS based elemental analysis of *C. scolymus* L extract

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| **ELAN-9000, Perkin Elmer****Parameters for the analysis of vegetable part extract****(petal, choke and heart) of *C. scolymus*** |
| RF Power: 1500 wattsPlasma Gas Flow: 15 L/minAuxiliary Gas Flow:1 L/minNebulizer Gas Flow: 0.83-0.88 L/minPeristaltic Pump Speed: 0.5 mL/minNebulizer/Spray Chamber PFA-ST/Peltier-cooled cyclonicSpray Chamber Temp: 2 ᴼCDetector Mode Dual Lens/ AutoLens EnabledSampler/Skimmer Cones NickelScanning Mode: Peak HoppingNumber of Points/Peak: 1Number of Sweeps/Reading: 10Number of Readings/Replicate: 1Number of Replicates: 3 |