**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 watts  Plasma Gas Flow: 15 L/min  Auxiliary Gas Flow:1 L/min  Nebulizer Gas Flow: 0.83-0.88 L/min  Peristaltic Pump Speed: 0.5 mL/min  Nebulizer/Spray Chamber PFA-ST/Peltier-cooled cyclonic  Spray Chamber Temp: 2 ᴼC  Detector Mode Dual Lens/ AutoLens Enabled  Sampler/Skimmer Cones Nickel  Scanning Mode: Peak Hopping  Number of Points/Peak: 1  Number of Sweeps/Reading: 10  Number of Readings/Replicate: 1  Number of Replicates: 3 |