Unveiling the Dual Nature of Heavy Metals: Stressors and Promoters of Phenolic Compound Biosynthesis in *Basilicum polystachyon* (L.) Moench In Vitro

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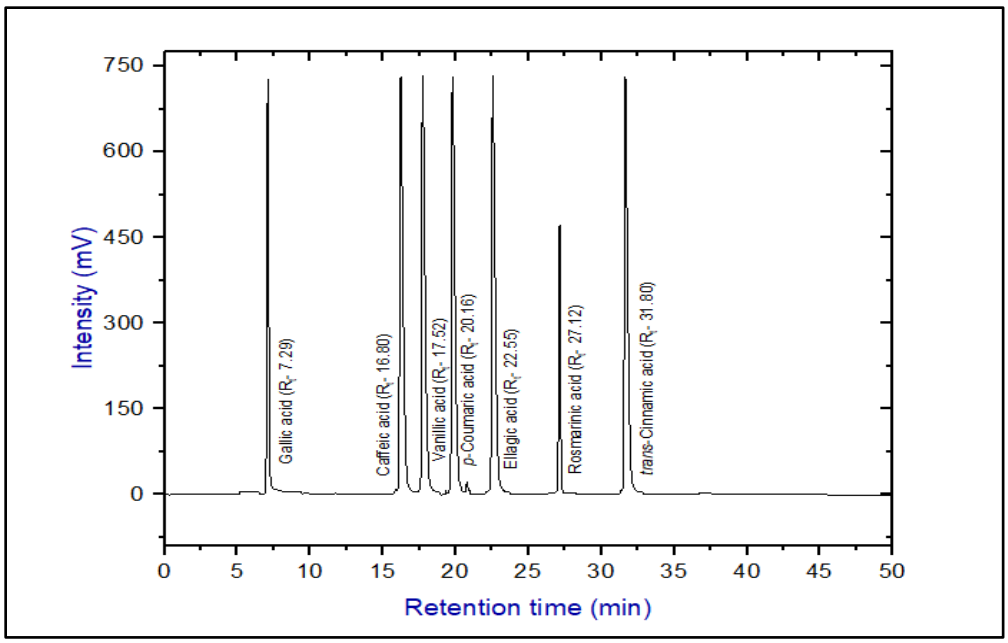
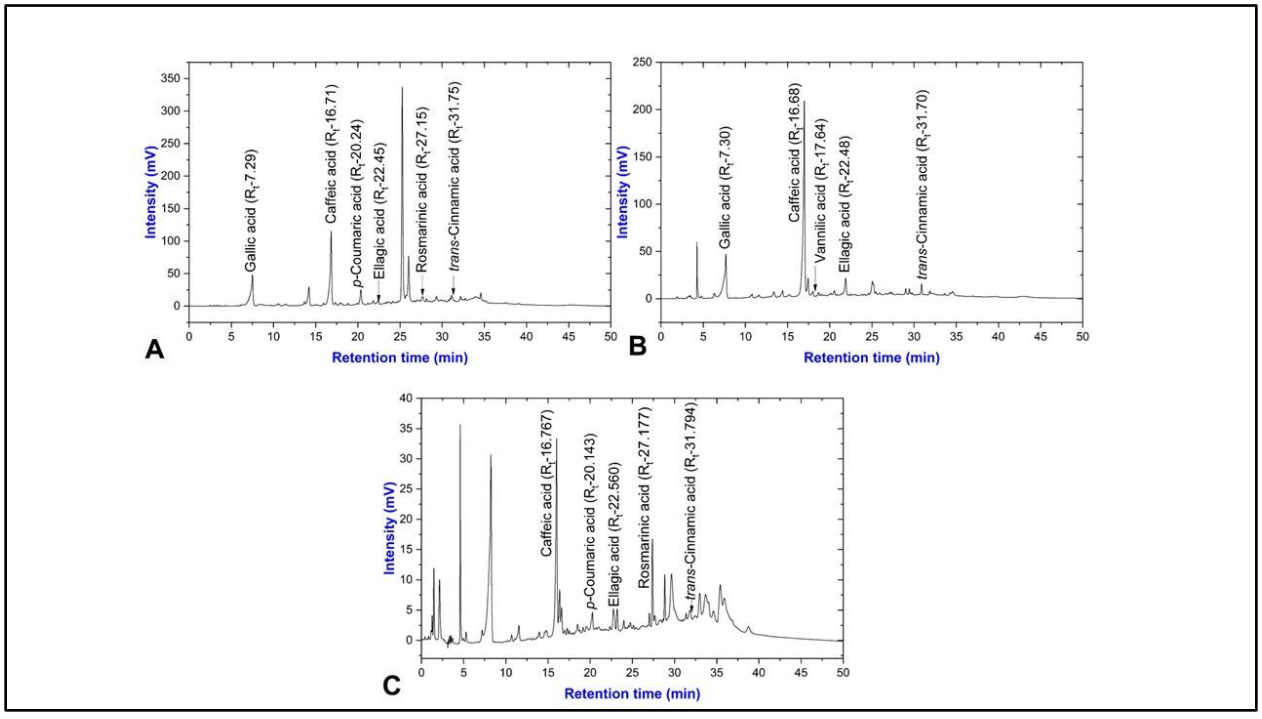
Supplementary Table S1. Program for gradient elution using a mobile phase consisting of (A) 2% glacial acetic acid in water and (B) acetonitrile: water (70:30).

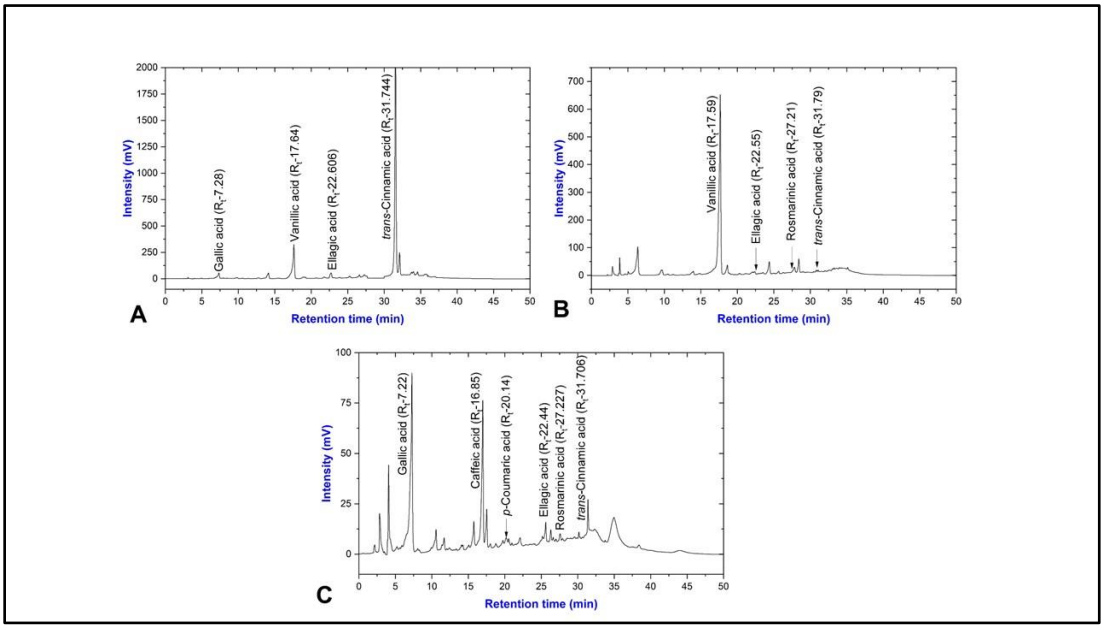
Time (min)	Solvent A (2% Glacial acetic Acid in Water)	Solvent B (Acetonitrile: Water) 70:30
0-3	95	5
3-10	80	20
10-20	60	40
20-30	20	80
30-50	95	5



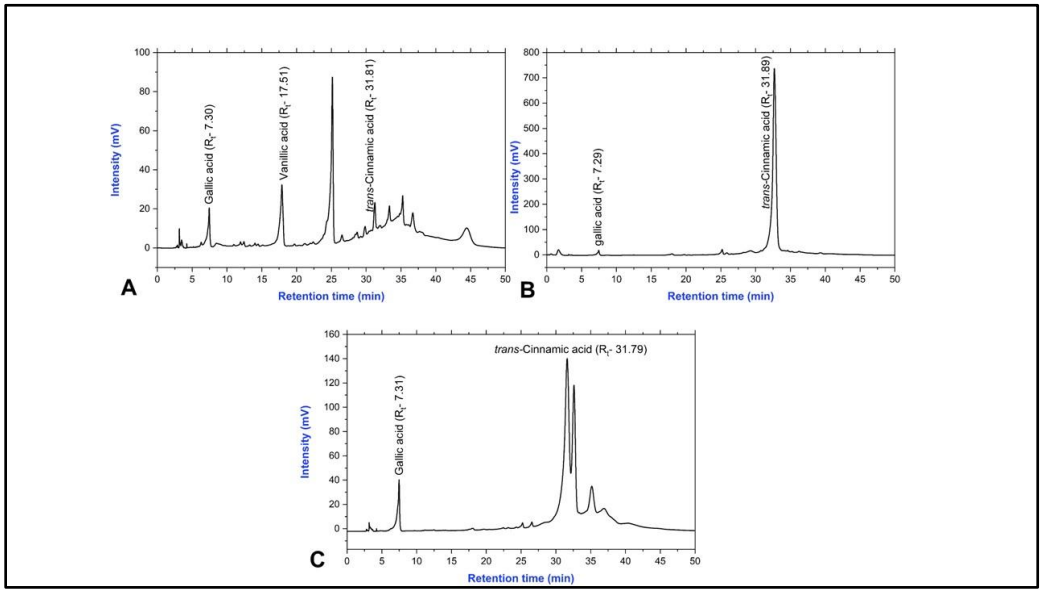
Supplementary Figure S1. HPLC chromatogram of standard phenolic acids: Gallic acid (R_t-7.29), Caffeic acid (R_t-16.80), Vanillic acid (R_t-17.52), *p*-Coumaric acid (R_t-20.16), Ellagic acid (R_t-22.55), Rosmarinic acid (R_t-27.12), *trans*-Cinnamic acid (R_t-31.80).



Supplementary Figure S2. HPLC chromatographic profile of phenolic compounds obtained in the leaves of lead (II) induced plant. (**A**) Free form phenolics, (**B**) Esterified form phenolics, and (**C**) Glycosylated form phenolics.



Supplementary Figure S3. HPLC chromatographic profile of phenolic compounds obtained in the leaves of mercury (II) induced plant. (**A**) Free form phenolics, (**B**) Esterified form phenolics, and (**C**) Glycosylated form phenolics.



Supplementary Figure S4. HPLC chromatographic profile of phenolic compounds obtained in the leaves of the control plant. (**A**) Free form phenolics, (**B**) Esterified form phenolics, and (**C**) Glycosylated form phenolics**.**