

# Chemical Composition and Biological Properties of New Romanian *Lavandula* species

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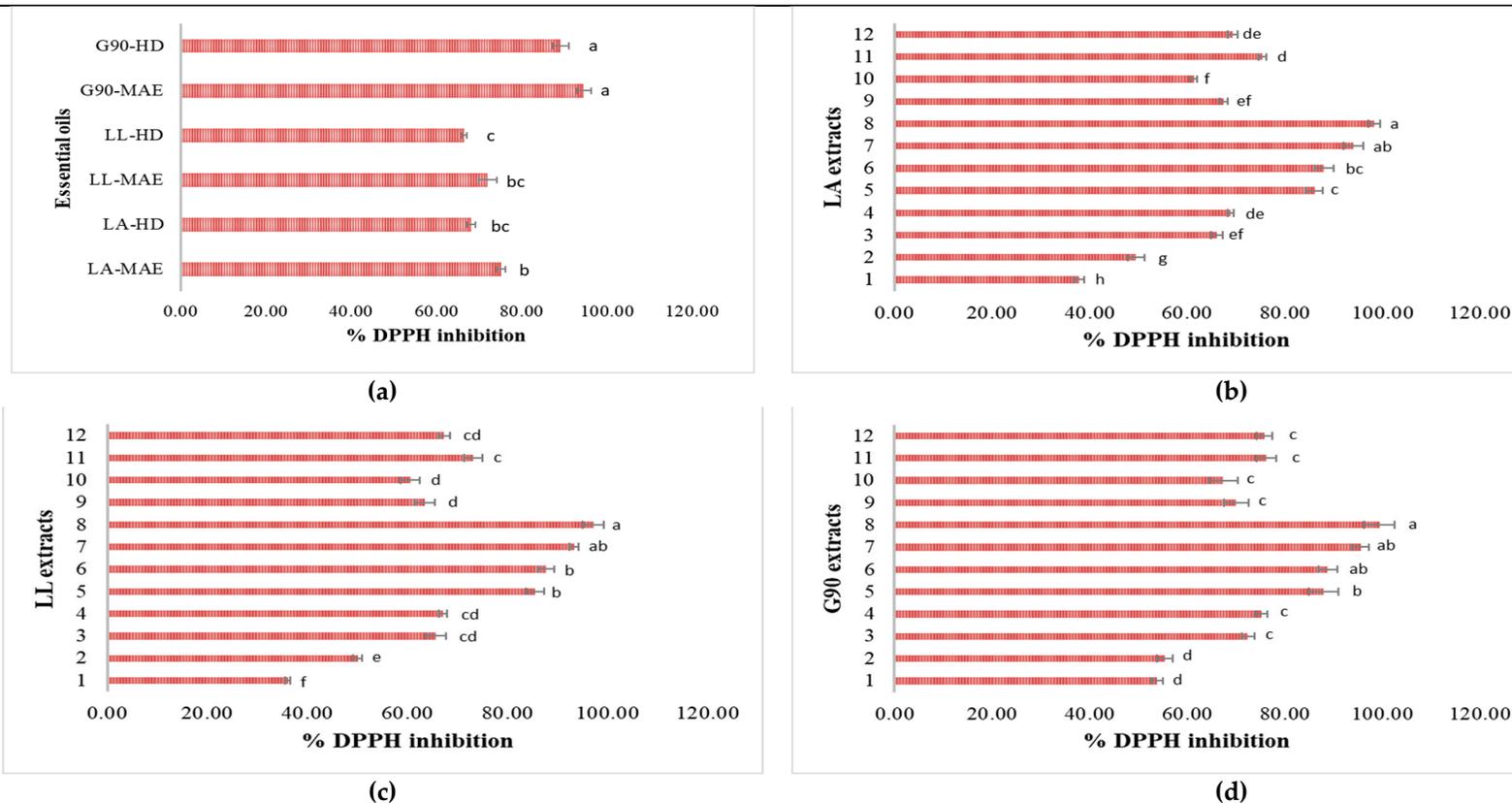
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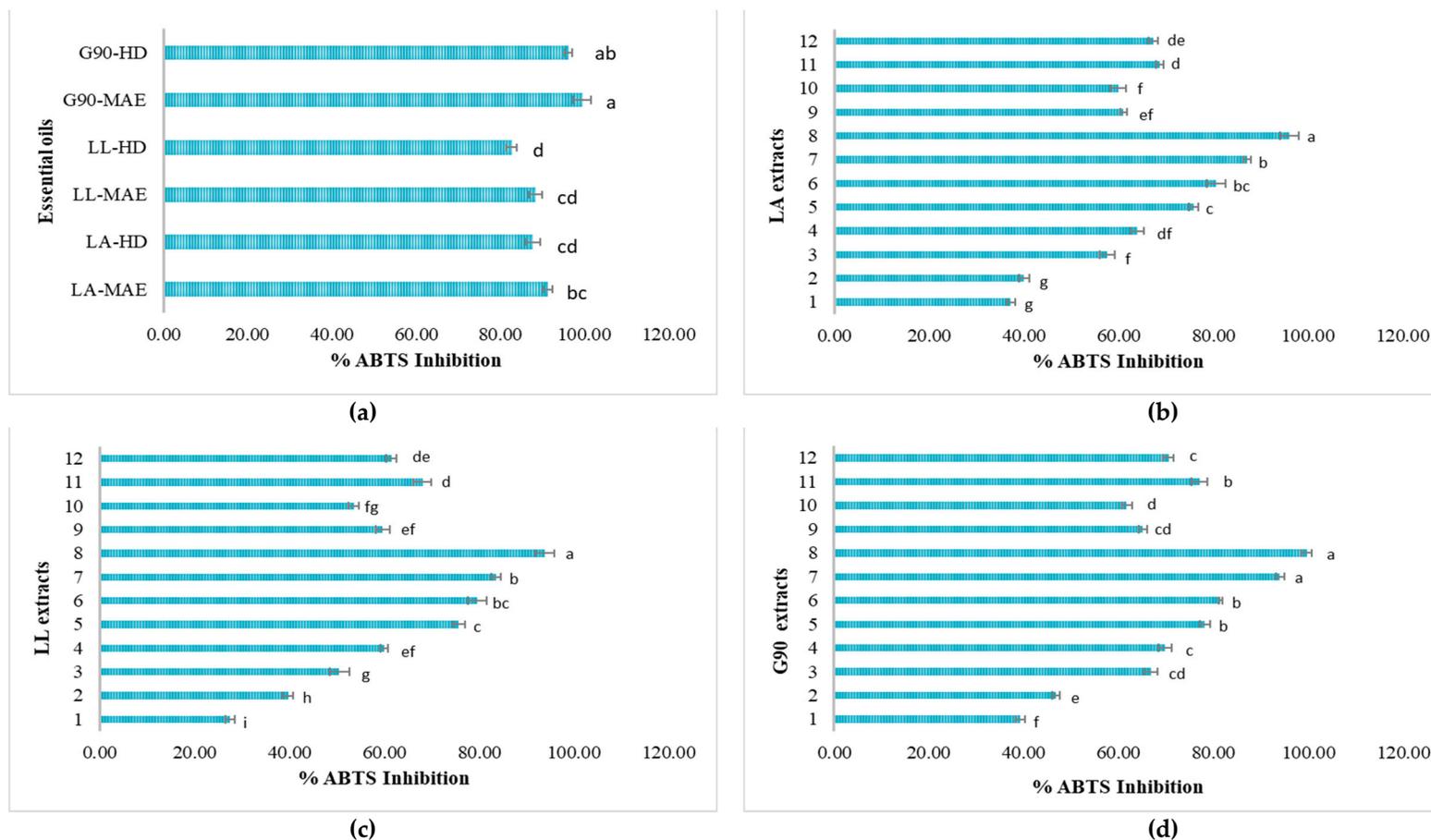
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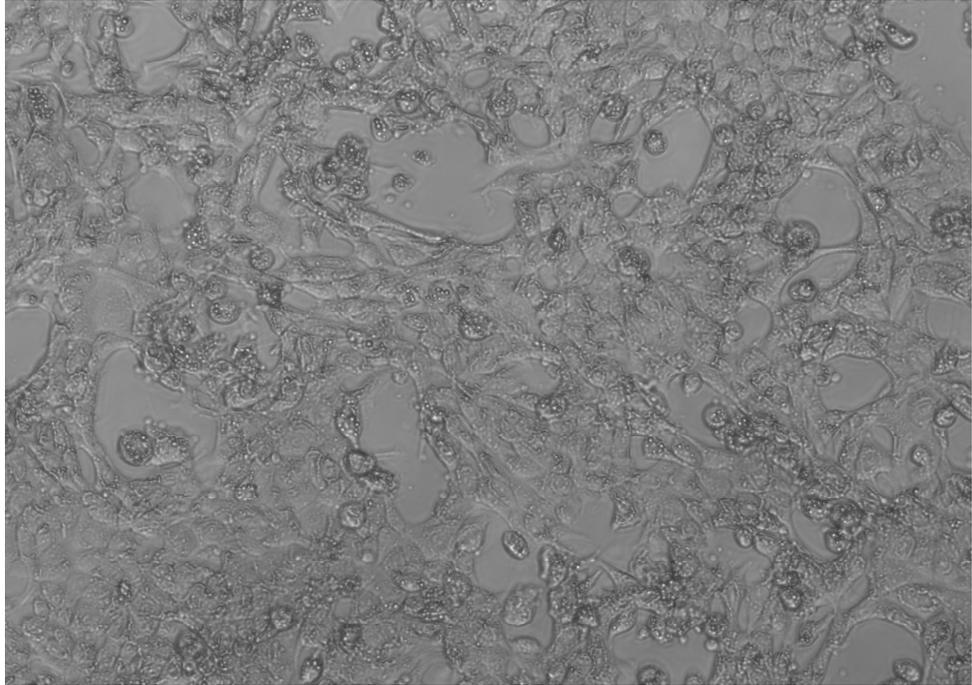
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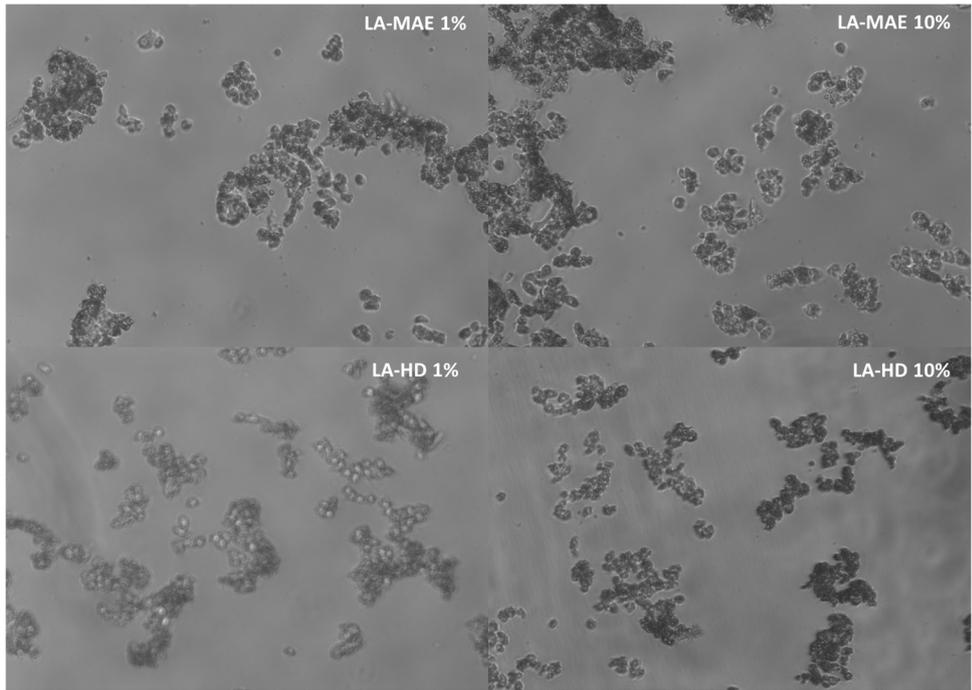
**Figure S1.** DPPH antioxidant potential expressed as inhibition percent of (a) LA, LL and G90 essential oils and (b) LA, (c) LL and (d) G90 hydroalcoholic extracts. LA-MAE - *L. angustigolia* MAE essential oil, LA-HD - *L. angustigolia* HD essential oil, LL-MAE - *L. latifolia* MAE essential oil, LL-HD - *L. latifolia* HD essential oil, G90-MAE - *George 90* MAE essential oil and G90-HD - *George 90* HD essential oil. 1 – EtOH 50%, plant material/solvent ratio at 1:20 (m/v), G1 coarse-sized plant material; 2 – EtOH 50%, plant material/solvent ratio at 1:20 (m/v), G2 fine-sized plant material; 3 – EtOH 50%, plant material/solvent ratio at 1:40 (m/v), G1 coarse-sized plant material; 4 – EtOH 50%, plant material/solvent ratio at 1:40 (m/v), G2 fine-sized plant material; 5 – EtOH 70%, plant material/solvent ratio at 1:20 (m/v), G1 coarse-sized plant material; 6 – EtOH 70%, plant material/solvent ratio at 1:20 (m/v), G2 fine-sized plant material; 7 – EtOH 70%, plant material/solvent ratio at 1:40 (m/v), G1 coarse-sized plant material; 8 – EtOH 70%, plant material/solvent ratio at 1:40 (m/v), G2 fine-sized plant material; 9 – MeOH 50%, plant material/solvent ratio at 1:20 (m/v), G1 coarse-sized plant material; 10 – MeOH 50%, plant material/solvent ratio at 1:20 (m/v), G2 fine-sized plant material; 11 – MeOH 50%, plant material/solvent ratio at 1:40 (m/v), G1 coarse-sized plant material; 12 – MeOH 50%, plant material/solvent ratio at 1:40 (m/v), G2 fine-sized plant material. Values are presented as means  $\pm$  SD, n = 3 per treatment group. Data without a common superscript letter differ ( $P < 0.05$ ) as analyzed by one-way ANOVA and the TUKEY test.



**Figure S2.** ABTS antioxidant potential expressed as inhibition percent of (a) LA, LL and G90 essential oils and (b) LA, (c) LL and (d) G90 hydroalcoholic extracts. LA-MAE - *L. angustigolia* MAE essential oil, LA-HD - *L. angustigolia* HD essential oil, LL-MAE - *L. latifolia* MAE essential oil, LL-HD - *L. latifolia* HD essential oil, G90-MAE - *George 90* MAE essential oil and G90-HD - *George 90* HD essential oil. 1 – EtOH 50%, plant material/solvent ratio at 1:20 (m/v), G1 coarse-sized plant material; 2 – EtOH 50%, plant material/solvent ratio at 1:20 (m/v), G2 fine-sized plant material; 3 – EtOH 50%, plant material/solvent ratio at 1:40 (m/v), G1 coarse-sized plant material; 4 – EtOH 50%, plant material/solvent ratio at 1:40 (m/v), G2 fine-sized plant material; 5 – EtOH 70%, plant material/solvent ratio at 1:20 (m/v), G1 coarse-sized plant material; 6 – EtOH 70%, plant material/solvent ratio at 1:20 (m/v), G2 fine-sized plant material; 7 – EtOH 70%, plant material/solvent ratio at 1:40 (m/v), G1 coarse-sized plant material; 8 – EtOH 70%, plant material/solvent ratio at 1:40 (m/v), G2 fine-sized plant material; 9 – MeOH 50%, plant material/solvent ratio at 1:20 (m/v), G1 coarse-sized plant material; 10 – MeOH 50%, plant material/solvent ratio at 1:20 (m/v), G2 fine-sized plant material; 11 – MeOH 50%, plant material/solvent ratio at 1:40 (m/v), G1 coarse-sized plant material; 12 – MeOH 50%, plant material/solvent ratio at 1:40 (m/v), G2 fine-sized plant material. Values are presented as means  $\pm$  SD, n = 3 per treatment group. Data without a common superscript letter differ ( $P < 0.05$ ) as analyzed by one-way ANOVA and the TUKEY test.

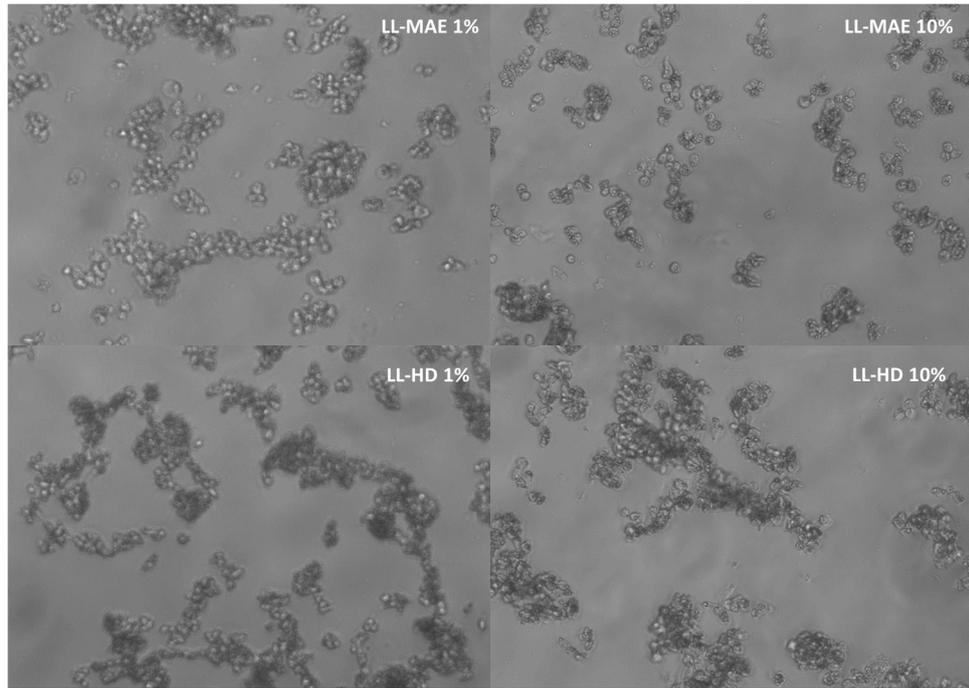


(a)

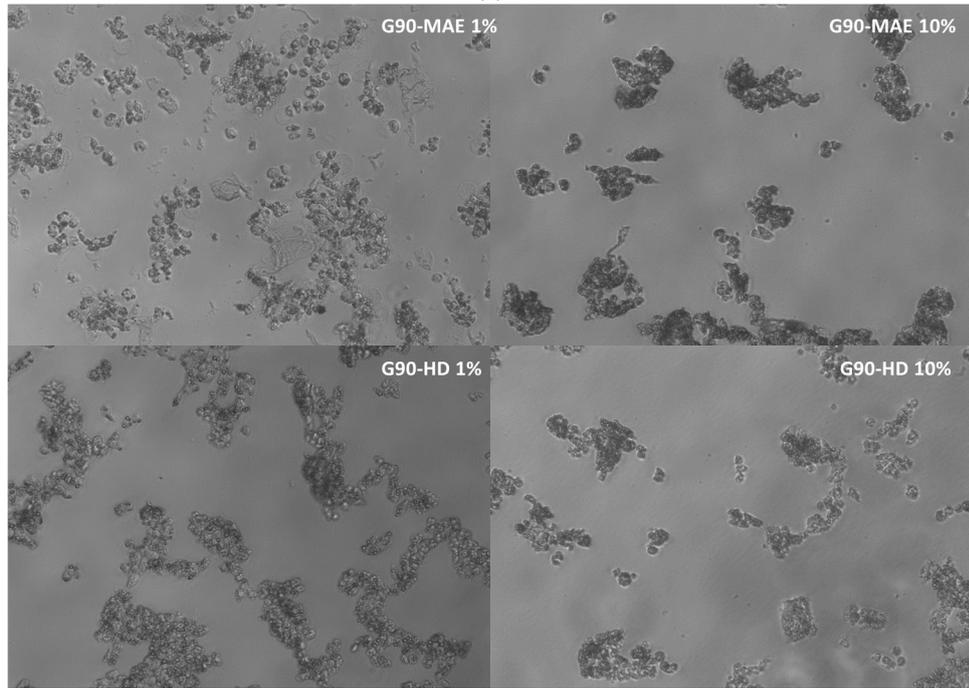


(b)

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(c)



(d)

**Figure S3.** Cell morphological changes induced by the (a) negative control, (b) LA, (c) LL and (d) G90 essential oils.