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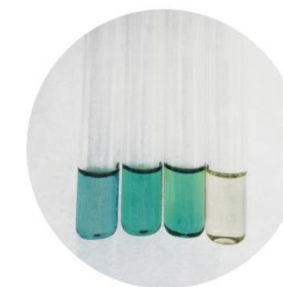
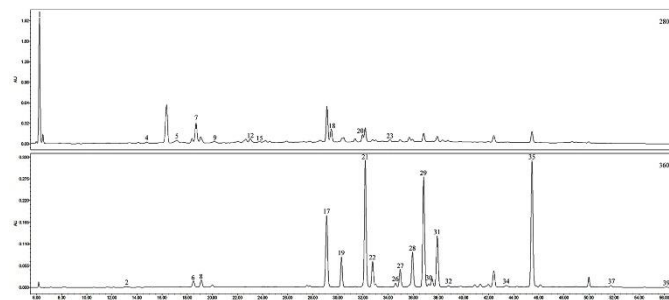
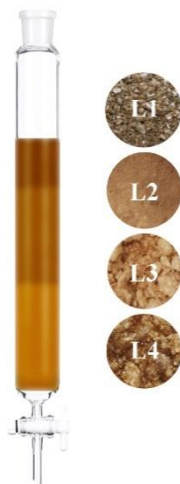
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Antioxidant activity of phenolic fractions from *Vaccinium vitis-idaea* L. leaves

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Background, Aim, and Methods



Lingonberry leaves – a good source of antioxidants (phenolics)

Isolation of phenolic fractions (using Sephadex LH-20)

Determination of phenolic composition (by HPLC-PDA)

Antioxidant activity evaluation (by ABTS, FRAP, FIC assays)

Results

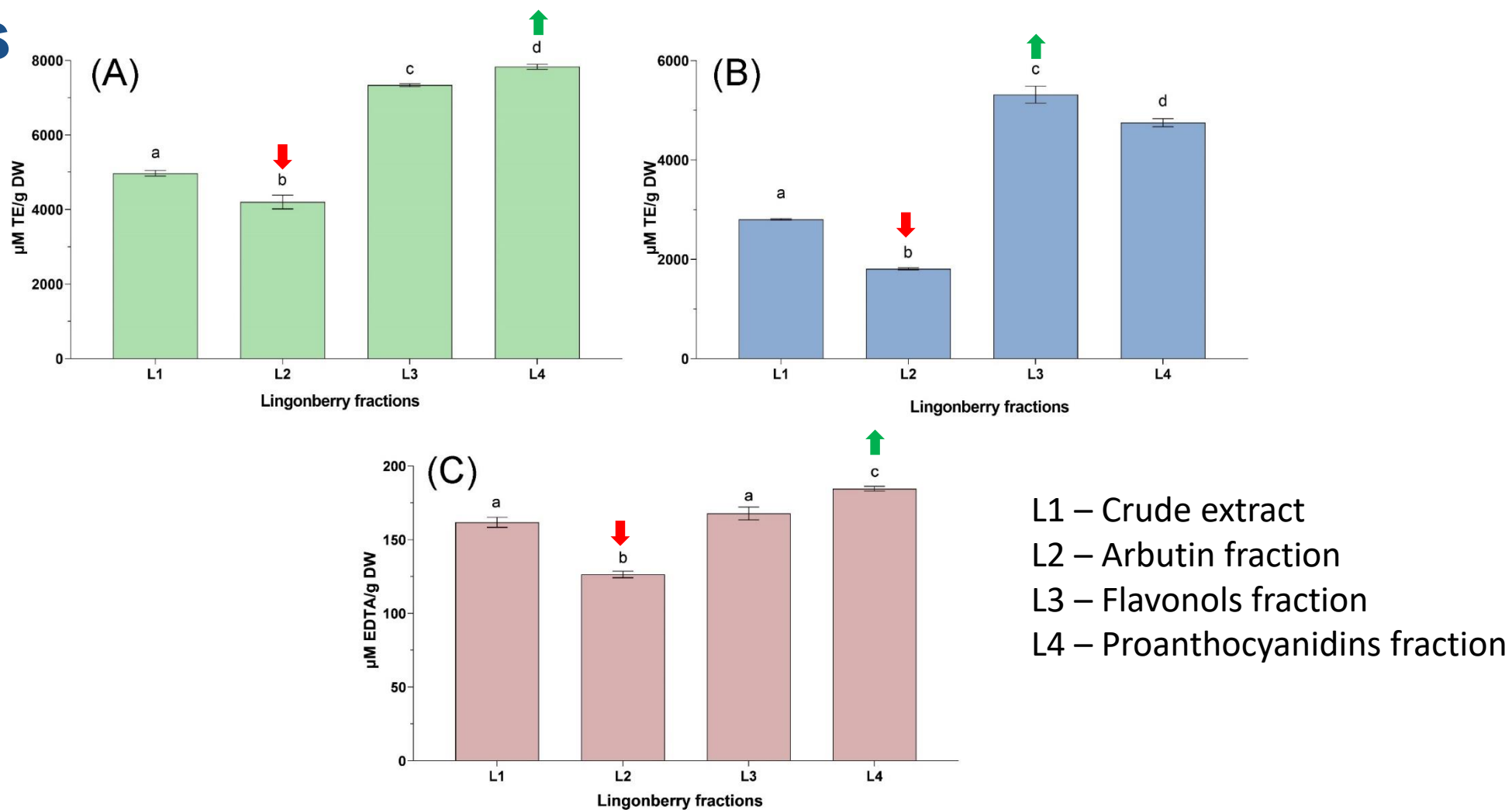


Fig. 1. Antioxidant activities of different fractions of lingonberry leaves, assessed by ABTS (A), FRAP (B), and FIC (C) assays. Values marked with different letters are significantly different ($p < 0.05$).

Conclusions

1. Antioxidant activity of crude extract and obtained fractions according to average values of all antioxidant activity assays were in the following ascending order: $L2 < L1 < L3 < L4$.
2. The purified fraction, obtained by the last fractionation step, possessed the greatest antioxidant activity.
3. The predominant compounds of this fraction – proanthocyanidins – can be considered to be antioxidant activity markers of lingonberry leaves.

