

Silver Ion High-Performance Liquid Chromatography — Atmospheric Pressure Chemical Ionization Mass Spectrometry: A Tool for Analyzing Cuticular Hydrocarbons

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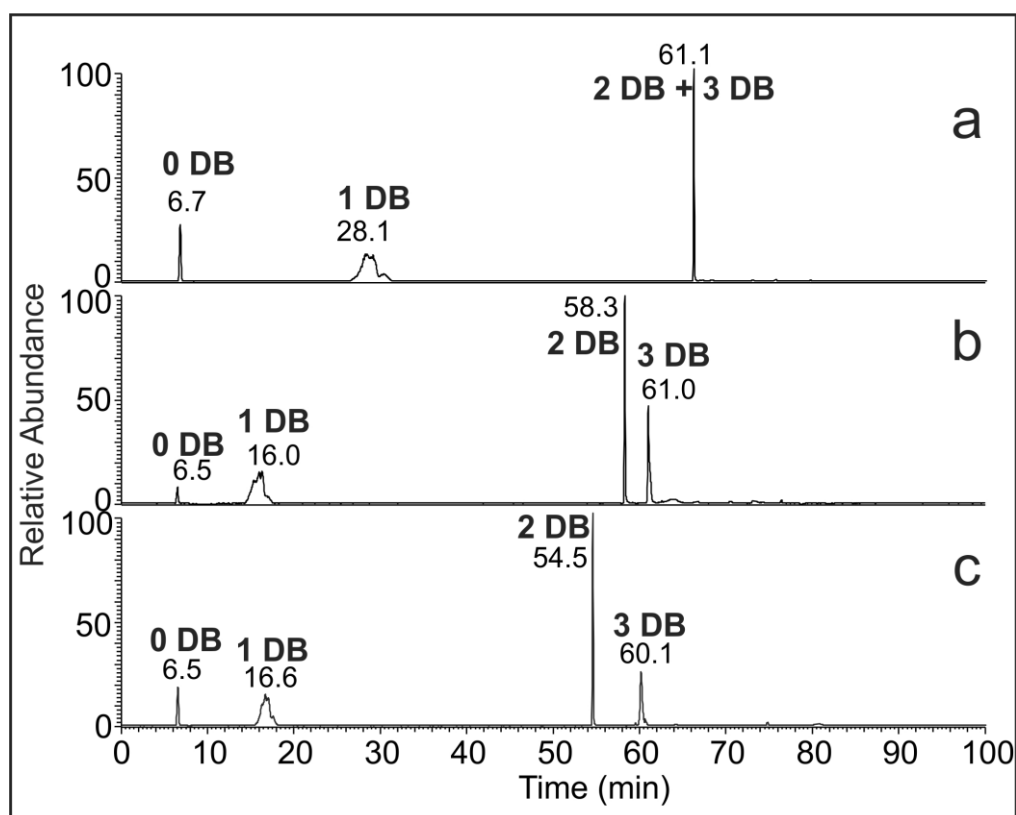


Figure S1. Chromatograms of *N. bullata* cuticular HCs at (a) 15°C, (b) 25°C, and (c) 35°C. The sample was separated in the solvent system I with a linear increase of toluene (B) in hexane (A) at 0.556 % B/min.

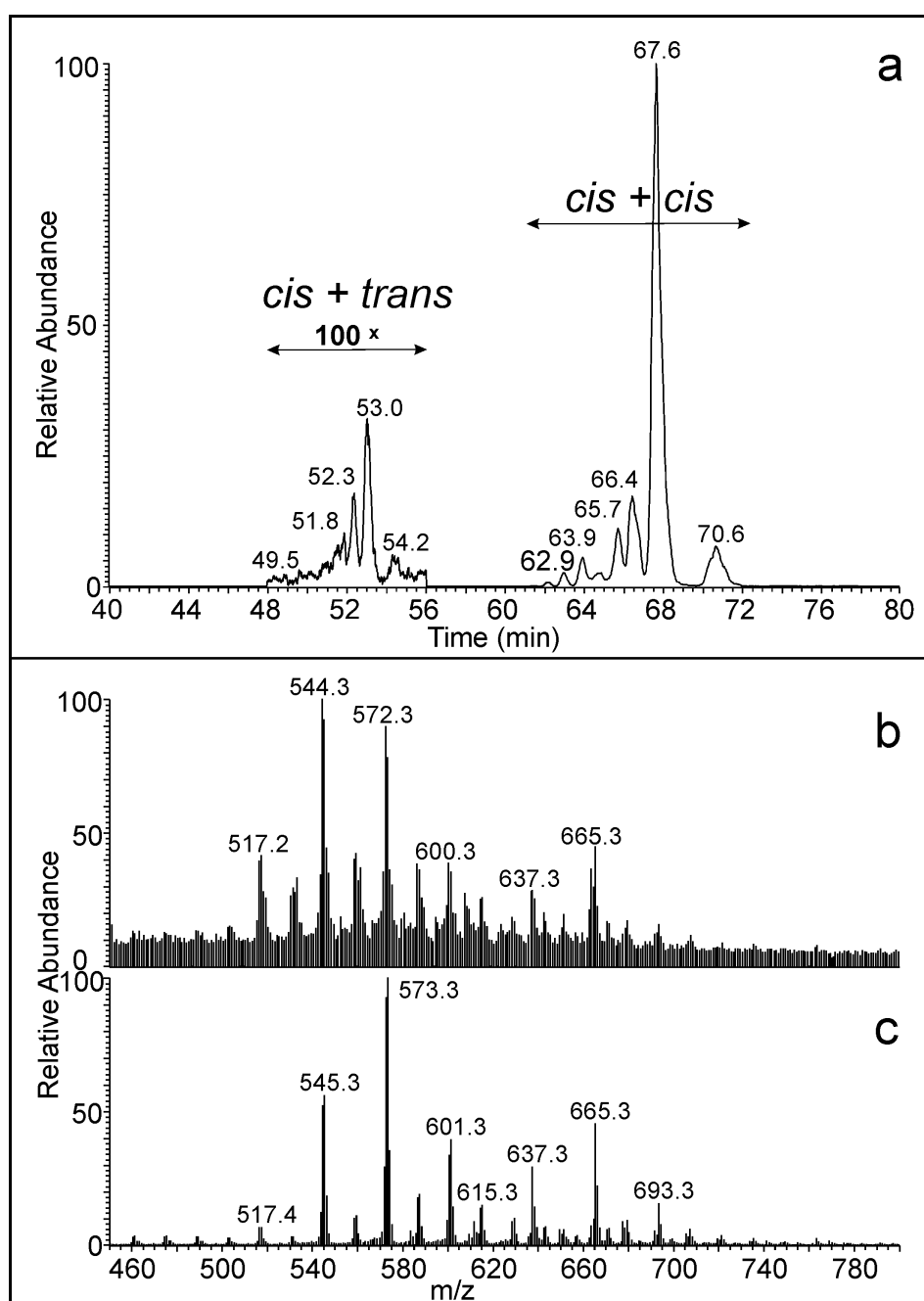


Figure S2. (a) Basepeak chromatogram of diunsaturated HCs from *N. bullata*, (b) APCI-MS spectrum averaged within R_t 50.0-55.5 min (one trans double bond, one cis), and (c) APCI-MS spectrum averaged within R_t 61.4-71.8 min (two cis double bonds). The sample was separated in the solvent system III with a linear increase of toluene (B) in hexane (A) at 0.50 % B/min. The column temperature was 15°C.

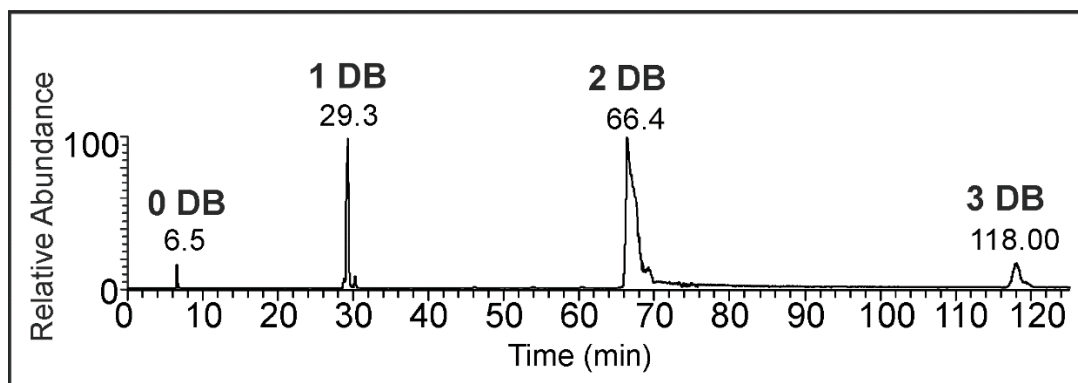


Figure S3. Ag-HPLC/APCI-MS chromatogram of *P. americana* cuticular HCs. The sample was separated in the solvent system III with a linear increase of toluene (B) in hexane (A) at 0.50 % B/min. The column temperature was 15°C.

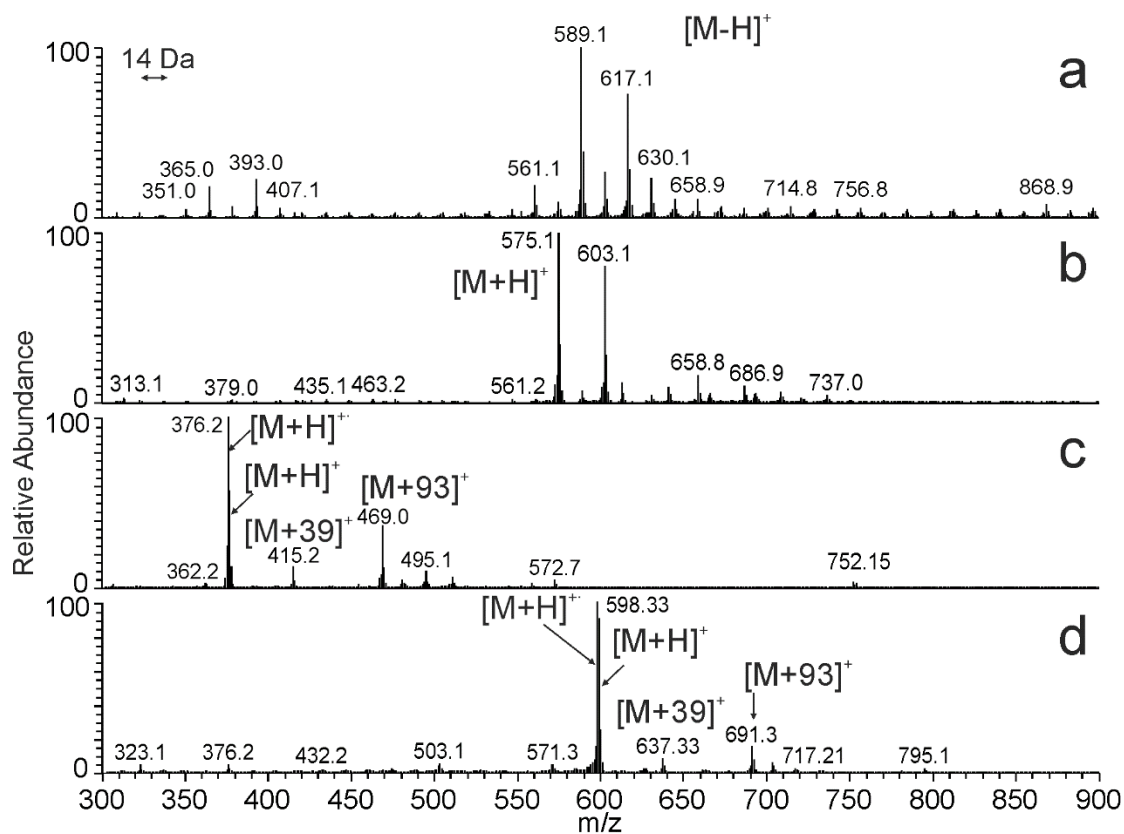


Figure S4. APCI spectra of *P. americana* cuticular HCs with a) 0, b) 1, c) 2, and d) 3 double bonds. The spectra were taken from the most abundant chromatographic peaks, a) 6.1-6.8 min, b) 29.0-29.4 min, c) 67.9-68.9 min, and d) 117.4-118.2 min. The sample was separated in the solvent system III with a linear increase of toluene (B) in hexane (A) at 0.50 % B/min. The column temperature was 15°C (Figure S3).

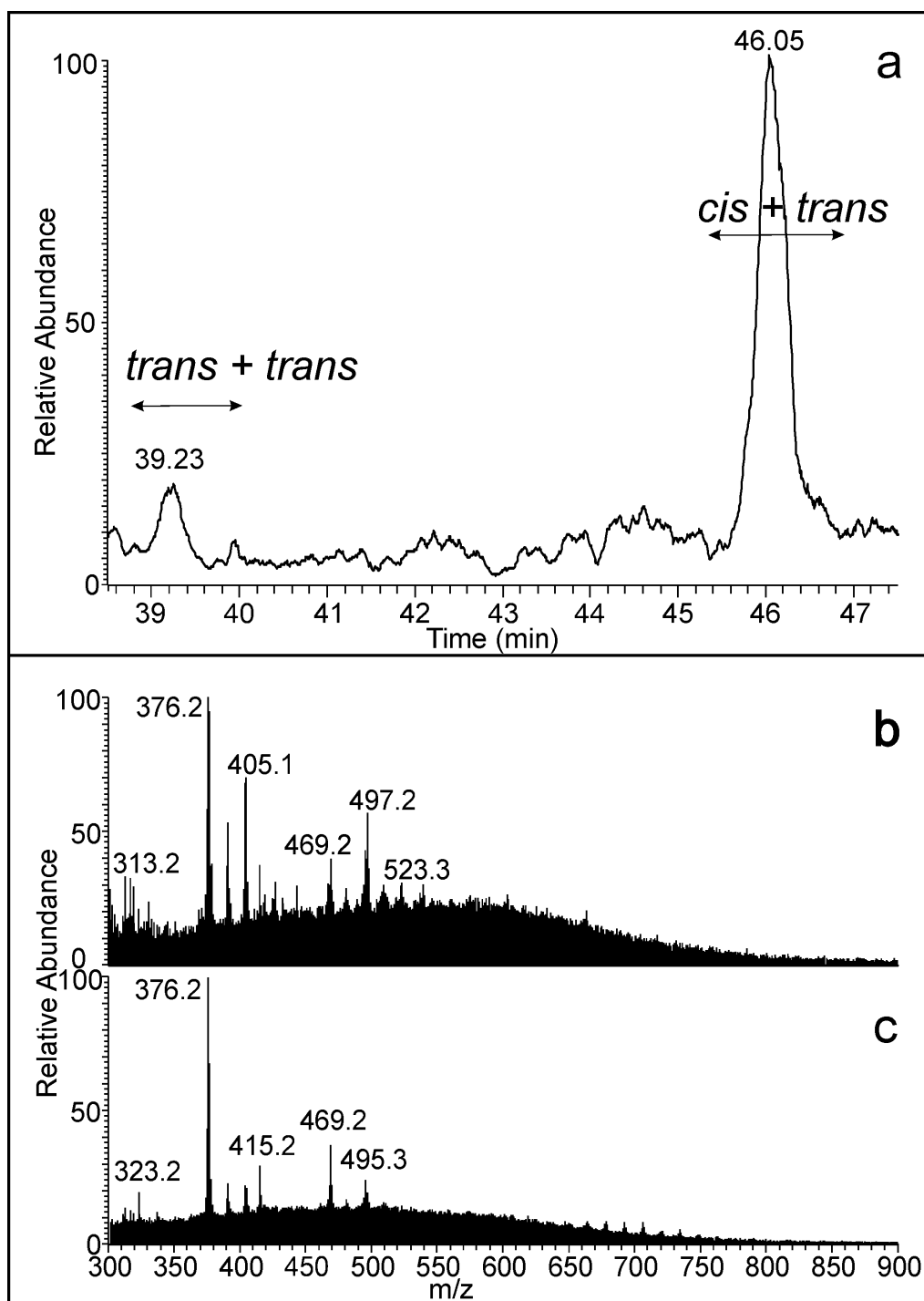


Figure S5. (a) Basepeak chromatogram of diunsaturated HCs from *P. americana*, (b) APCI-MS spectrum averaged within R_t 39.0-39.5 min range (two trans double bonds), and (c) APCI-MS spectrum averaged within R_t 45.8-46.4 min range (one cis double bond, one trans). The sample was separated in the solvent system III with a linear increase of toluene (B) in hexane (A) at 0.50 % B/min. The column temperature was 15°C.