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Analysis of underivatised low volatility compounds by comprehensive two dimensional gas chromatography with a short primary column

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Running Head: Analysis of low volatility compounds in GC×GC

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HIGHLIGHTS

- Raw coffee bean extract lipids were analysed using GC×GC, without derivatisation
- Classes included fatty acids, diterpenes, tocopherols, sterols, DAGs and TAGs
- The latter late eluting analytes required high temperature GC analysis
- Cafestol and kahweol ester series were tentatively identified
- Normal hydrocarbons and DAGs were indicated as common coffee oil components

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