

## Characterization of Allergens in Different Perfumes and Herbs

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The allergens in cosmetics products need to be labeled when 0.01 % or 0.001 % values are passed for rinse off and leave on products (7<sup>th</sup> amendment of European Directive 2003/15/EC, Official Journal of the European Union, L66/26, 11.3.2003). Volatile oils and perfumes (diluted 10:1) were injected directly or by headspace or other extraction methods for shampoos, shower gels and herbs analysis. The samples were analyzed by GC-FID and GC-MS. A HP-5 capillary column, 30mx0.32mm, 0.25 µm film thickness, in a proper temperature program was used. The target analyses followed 26 allergens, but especially limonene was quantitatively determined, by using as internal standard C11:1 ester.

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