

Supplementary Materials

Hydrophobic natural eutectic solvents for the gas chromatographic determination of suspected allergens in fragrances by dispersive liquid-liquid microextraction

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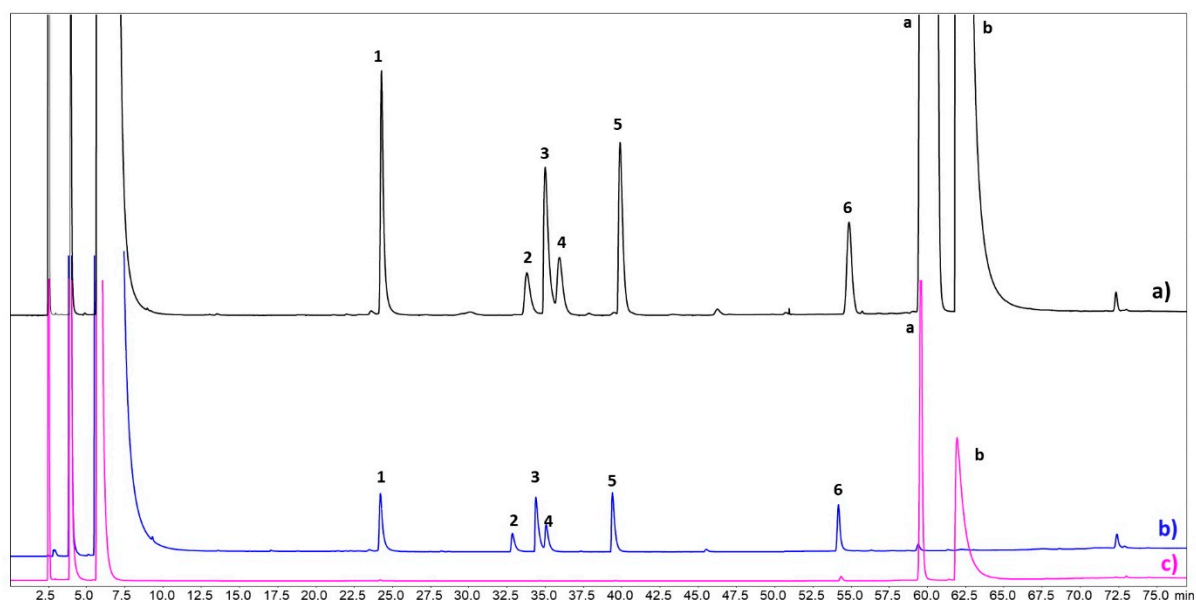
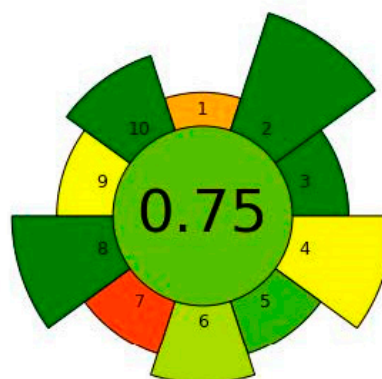


Figure S1: GC-FID profiles of a) HES based DLLME of the investigated suspected allergens, b) direct injection of the allergens mixture and c) water phase resulting after the extraction. Legend: 1. linalool, 2. neral, 3. citronellol, 4. geranial, 5. geraniol, 6. hydroxycitronellal; a. thymol, b. eugenol.

AGREEprep

Analytical Greenness Metric
for Sample Preparation

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#	Criterion	Score	Weight
1.	Sample preparation placement Sample preparation placement: On site	0.33	1
2.	Hazardous materials Mass [g] or volume [mL] of problematic materials: 0	1.0	5
3.	Sustainability and renewability of materials Only sustainable and renewable materials are used several times	1.0	2
4.	Waste Mass [g] or volume [mL] of waste: 2.4	0.49	4
5.	Size economy of the sample Mass [g] or volume [mL] of the sample: 0.4	0.8	2
6.	Sample throughput Hourly sample throughput: 15	0.64	3
7.	Integration and automation No. of sample prep. steps: 4 steps; degree of automation: Manual systems	0.12	2
8.	Energy consumption Approximate energy consumption per analysis [W]: 6	1.0	4
9.	Post-sample preparation configuration for analysis GC with non-MS detection, atomic absorption spectroscopy, capillary electrophoresis, etc.	0.5	2
10.	Operator's safety No. of distinct hazards: No hazards or no exposure	1.0	3

Figure S2: pictogram and report obtained with AGREEprep metric tool [1] for the proposed HES based DLLME method.

[1] Wojnowski, W.; Tobiszewski, M.; Pena-Pereira, F.; Psillakis, E. AGREEprep – Analytical greenness metric for sample preparation. TrAC Trends in Analytical Chemistry 2022, 149, 116553, doi: <https://doi.org/10.1016/j.trac.2022.116553>