

Supplementary Materials

Table S1. Strawberry flavourings (Darmstadt, Germany) used in the study.

| Sample | Declaration | Ingredients |
|---------------|---------------------------------|---|
| A | Strawberry flavouring | Flavouring substances, E1520, water, E260, E300. |
| B | Natural strawberry flavouring | Flavouring substances, inverted sugar syrup, E1520 (32 %), ethanol, strawberry juice from concentrate, water. |
| C | Natural strawberry flavouring | Flavouring substances, inverted sugar syrup, E1520 (32 %), ethanol, strawberry juice from concentrate, water. |
| D | Strawberry flavouring | Flavouring compounds, E1520, E1518, E260, water, E300. |
| E | Strawberry flavouring | Flavouring compounds, E1520, E1518, E260, water, E300. |
| F | Natural flavouring (strawberry) | Natural flavouring substances, flavouring extracts, E1520 (81.5 %), water, E1518 (1.56 %). |
| G | Strawberry flavouring | Flavouring compounds, ethanol, water, E1518, E1520, E260, E300. |

Table S2. Syrups used in the study.

| Sample | Country of producer | Ingredients |
|---------------|----------------------------|--|
| 1 | Switzerland | Sugar, water, strawberry juice from concentrate (30 %), E330, natural flavourings, colouring concentrate from black carrot. |
| 2 | Austria | Sugar, glucose-fructose syrup, fruit juice from concentrate of strawberry (10 %), aronia, elderberry and apples, water, E330, flavourings. |
| 3 | Czech Republic | Rapeseed sugar max. 60 %, water, strawberry min. 12 %, E330. |
| 4 | Czech Republic | Water, sugar, glucose-fructose syrup, apple juice from concentrate (1 %), juice from forest strawberry concentrate (0,5 %), E330, vitamin C and A, colouring concentrate from black carrot, flavourings. |
| 5 | Czech Republic | Sugar, glucose-fructose syrup, water, strawberry juice from concentrate (1 %), E330, E300, flavourings, plant concentrate (carrot), E150d, E202. |
| 6 | Great Britain | Fructose-glucose syrup, water, strawberry juice from concentrate (20 %), E330, colourant (anthocyanins), flavourings, E150d, E202. |
| 7 | France | Sugar, fruit juice from concentrate (29 %), strawberry and forest strawberry (15 %), drinking water, E330, flavourings. |
| 8 | Netherlands | Glucose-fructose syrup, drinking water, E330, strawberry flavouring, colouring concentrates (carrot , black current), flavourings, strawberry concentrate 4,8 %, E202. |
| 9 | Czech Republic | Glucose-fructose syrup, drinking water, strawberry juice from concentrate, elderberry juice from concentrate, strawberry flavouring, E330. Content of fruit 20 %. |
| 10 | Czech Republic | Glucose syrup, strawberry juice from concentrate, drinking water, E330, strawberry flavouring, colouring fruit and plant extracts (carrot concentrate), E120. |
| 11 | Czech Republic | Inverted sugar, water, apple juice from concentrate, E330, colouring concentrate from black carrot, strawberry juice from concentrate (0,5 %), juice from concentrate of pomegranate (0,5 %), flavourings. |
| 12 | Czech Republic | Glucose-fructose syrup, drinking water, strawberry concentrate (contains: strawberry juice from concentrate, elderberry juice from concentrate, strawberry flavouring), E330. Fruit content 20 %. |
| 13 | Austria | Glucose-fructose syrup, sugar, strawberry juice from concentrate (20 %), water, E330, juice from elderberry concentrate, flavourings, E300. |
| 14 | Czech Republic | Sugar, glucose syrup, strawberry juice from concentrate, drinking water, E330, colouring fruit and plant extracts (carrot concentrate), E120. Fruit content min. 10 %. |

Table S3. Detailed description of chiral stationary phases.

| Chiral stationary phase | Composition of cyclodextrin derivative |
|---|---|
| DIME- β -CD | heptakis(2,3-di- <i>O</i> -methyl-6- <i>O</i> -tert-butyl dimethylsilyl)- β -cyclodextrin |
| EtTBS- β -CD* [Strączyński & Ligor, 2018] | 2,3-di- <i>O</i> -ethyl-6- <i>O</i> -tert-butyl dimethylsilyl- β -cyclodextrin |
| CycloSil B* [Shao & Marriott, 2003] | 2, 3-di- <i>O</i> -methyl-6- <i>O</i> -tert-butyl dimethylsilyl)- β -cyclodextrin |
| Chirasil- β -Dex | permethylated β -cyclodextrin |
| Rt β -DEXsm | heptakis(2,3-di- <i>O</i> -methyl-6- <i>O</i> -tert-butyl dimethylsilyl)- β -cyclodextrin |
| Rt γ -DEXsa | octakis(2,3-di- <i>O</i> -acetyl-6- <i>O</i> -tert-butyl dimethylsilyl)- γ -cyclodextrin |
| Lipodex C* [Borg-Karlson <i>et al.</i> , 2003] | heptakis (2,3,6-tri- <i>O</i> -pentyl)- β -cyclodextrin |
| Megadex DETTBS- β | diethyl-tert-butyl-silyl- β -cyclodextrin |
| Lipodex B | hexakis(3- <i>O</i> -acetyl-2,6-di- <i>O</i> -pentyl)- α -cyclodextrin |
| Lipodex D | heptakis(3- <i>O</i> -acetyl-2,6-di- <i>O</i> -pentyl)- β -cyclodextrin |
| Hydrodex β analogue | heptakis (2,3-di- <i>O</i> -acetyl-6- <i>O</i> -tert-butylsilyl)- β -cyclodextrin |

*Description taken from other literature than given in Table 1 in the main article.

Borg-Karlson, A. K., Valterová, I., Unelius, C. R., Taghizadeh, T., Tolasch, T., Francke, W. (2003). (S)-(+)-linalool, a mate attractant pheromone component in the bee *Colletes cunicularius*. *Journal of Chemical Ecology*, 29(1), 1-14. <https://doi.org/10.1023/A:1021964210877>

Shao, Y., Marriott, P. (2003). Separation of positional isomers by the use of coupled shape-selective stationary phase columns. *Analytical and Bioanalytical Chemistry*, 375(5), 635-642. <https://doi.org/10.1007/s00216-003-1768-6>

Strączyński, G., Ligor, T. (2018). Comprehensive gas chromatography: food and metabolomics applications. *Critical Reviews in Analytical Chemistry*, 48(3), 176-185. <https://doi.org/10.1080/10408347.2017.1390426>