Carbohydrates in strawberries

Results:

	content [g/kg]								
	Asia	Christine	Clery	Lambada	Mieze Schindler	Senga-Sengana	Vima Zanta	White Pineapple	*Banana*
Sucrose	0.8	4.2	0.5	0.8	<0.1	<0.1	<0.1	<0.1	*99.1*
Glucose	37.1	37.8	37.6	44.0	39.8	24.6	36.6	39.6	*34.7*
Fructose	39.1	38.6	41.5	48.1	45.4	29.5	41.4	41.6	*34.9*
Sum	77	81	80	93	85	54	78	81	*169*

Conclusions:

- **The sum of the carbohydrates in strawberries differs according to the sort from 50 g/kg to appr. 100 g/kg.**
- **The main sugars in strawberries are glucose and fructose. Sucrose was found only at low concentrations or not at all.**
- **In contrast, mainly sucrose was detected in the banana.**

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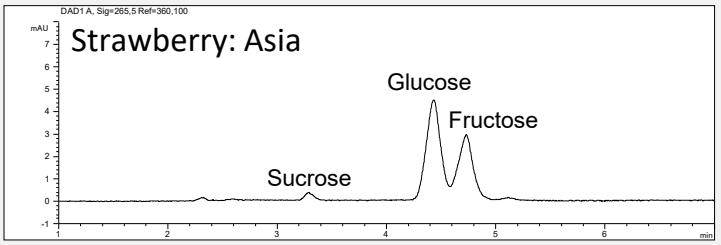
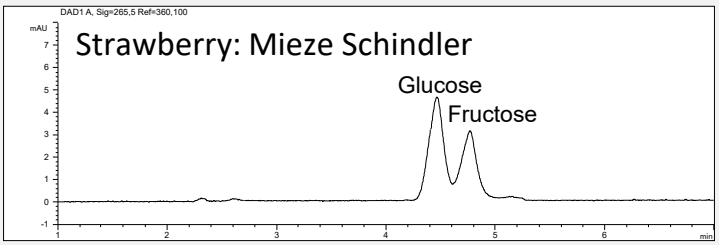
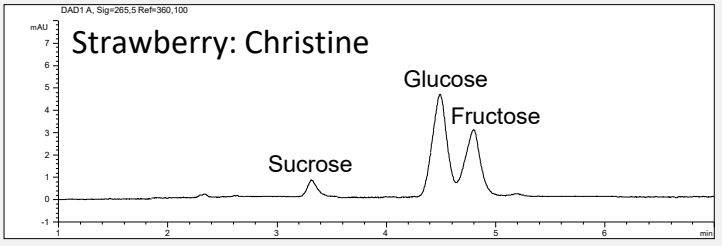
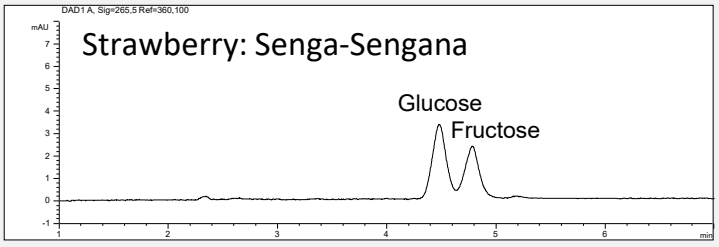
Sample preparation:

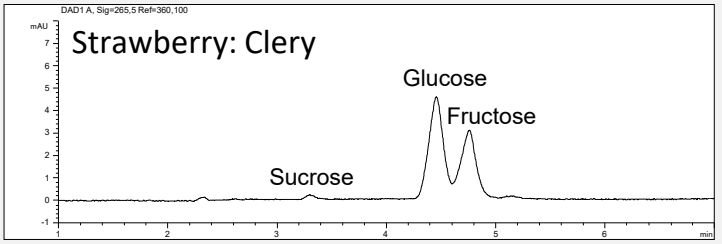
- Three fruits of each sort were pureed and deep-frozen.
- Immediately before the measurement, the puree was thawed.
- Each puree was diluted 1:5 using water and centrifuged to separate insoluble solids.
- Before injection, each sample was diluted again 1:20, resulting in a total dilution of 1:100.

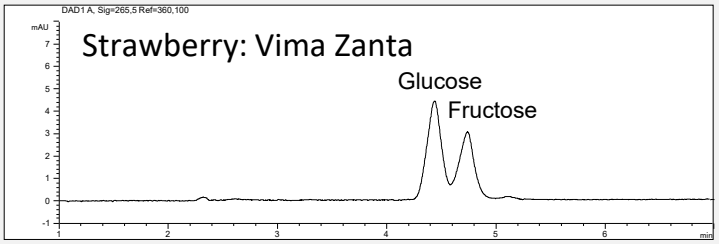


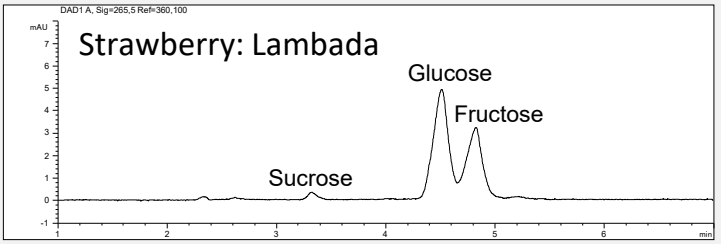


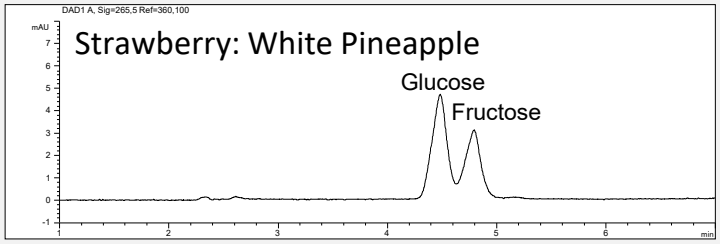












Experimental conditions:

- Mode: CZE
- Electrolyte: phosphate, pH 12.6, laboratory made
- Capillary: fused silica, 50 µm I.D.,
  56 cm effective length, 64.5 cm total length
- Injection: 50 mbar, 3 s
- Detection: direct, 265 nm
- Separation: 16 kV

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