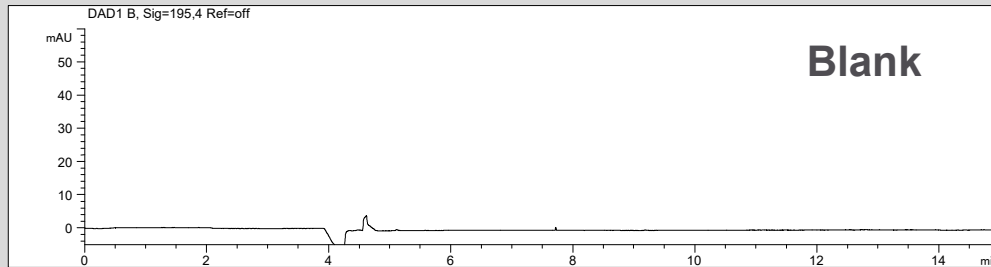
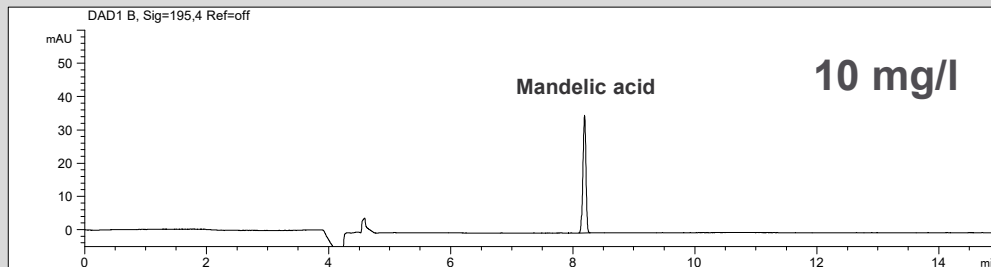


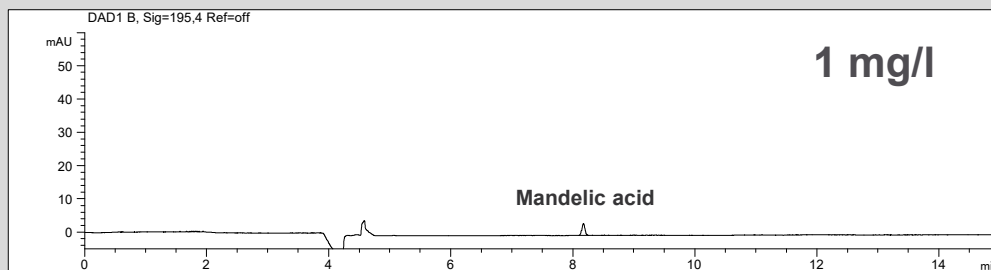
Determination of Mandelic acid using direct UV detection



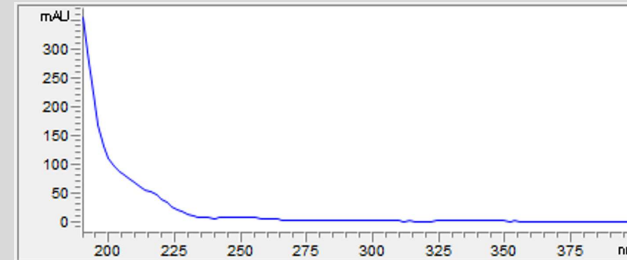
Blank: pure water



Standard solution: 10 mg/l Mandelic acid



Standard solution: 1 mg/l Mandelic acid



Spectral data of
mandelic acid
(ChemStation Software)

- Mode: MEKC
- Electrolyte: Borate, SDS
- Capillary: 50 μ m ID, 56 cm, bubble cell
- Separation: 30 kV, 25°C
- Injection: hydrodynamic
- Detection: direct UV, 195 nm

Limit of detection (LOD): 0.05 mg/l, (S/N = 3)

Limit of quantification (LOQ): 0.17 mg/l, (S/N = 10)

Reference: guideline: ICH Q2 (R1), 2005