

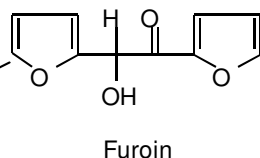
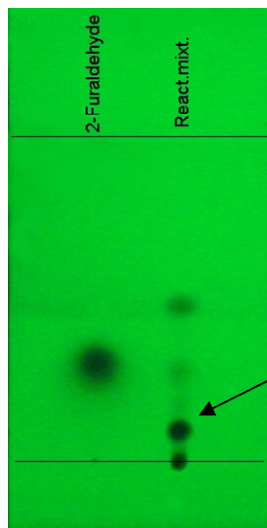
Isolation of 2,2'- Furoin from a crude reaction mixture

Example of a solid sample loading (sample adsorbed to silica gel)

A. Talamona, BÜCHI Labortechnik AG

TLC of the crude reaction mixture:

TLC on silica gel Si60_{F254}, developed in n-hexane/ethyl acetate 90/10, detection UV 254nm



Sepacore configuration

Cartridge 12 x 150mm, prepacked with silica gel 60, 40 – 63 μm

2 Pump Modules C-605

Fraction Collector C-660

Control-Unit C-620 with SepacoreControl software

UV Photometer C-635

Separation conditions

Eluent: n-hexane, n-hexane with 2%, 5%, 10% and 15% ethylacetate, step gradient (see chromatogram)

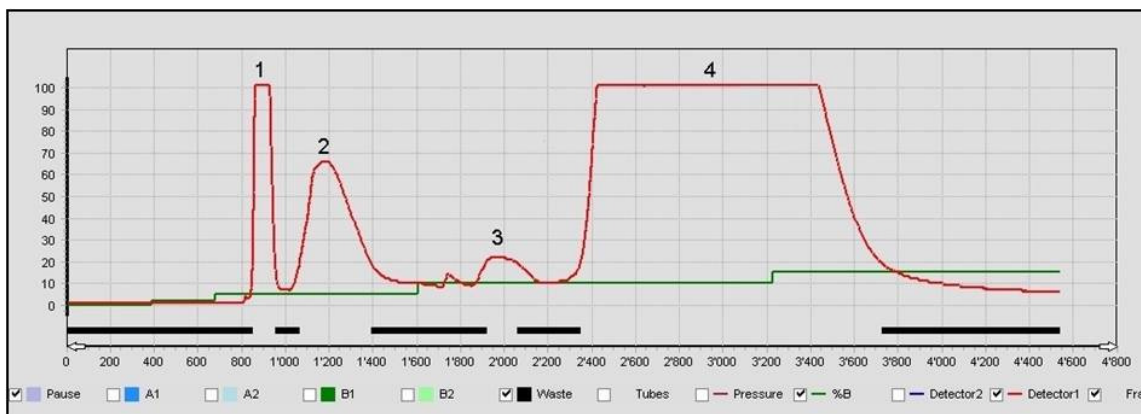
Flow rate: 10 ml/min

Sample dissolved in toluene (solubility in n-hexane with 5% isopropyl ether too low)

Sample: 0.25 g brown, semicrystalline crude product, adsorbed to 0.75 mg silica gel Si60, 40-63 μm

Solid sample application using the Büchi Prep Elut Adaptor

Separation



TLC of the separated fractions

TLC on silica gel 60_{F254}, developed in n-hexane with 20% ethyl acetate, detection UV 254 nm

Recovery

Fraction 4: 0.15 g Furoin, slightly yellowish crystals, mp 136.5°C

