#### **UV-spectra**

The present spectra set includes the substances which were investigated to be used as internal standards in MEKC. The UV-spectra are additional support to the work puplished in the journal Electrophoresis 2007, 28, 1798-1804 and give useful informations substances match the required detection wavelength. The set includes the following substance:

- Acetaminophen
- Resorcinol
- Caffeine
- Phenol
- Acetanilide
- Glibenclamide
- Naproxen
- Phenacetin
- 4-Hydroxybenzoic acid
- Nicotinic acid
- Salicylic acid
- Aminobenzoic acid
- Benzocaine
- Trimethoprim
- Neostigmine bromide
- Ephedrine hydrochloride

The UV spectra are taken from the "UV and IR Spectra of Some Important Drugs" (Dibbern, H.W. (Ed.), Editor Cantor, Aulendorf 2005)

The order of the present substances correlates with the capicity factor obtained during the investigation.

## **Acetaminophen**

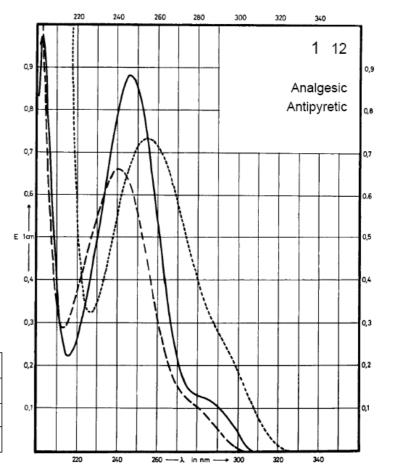


OH NH-CO-CH₃

M<sub>r</sub> 151.2

Concentration 1 mg / 100 ml

	Solvent Symbol	Methanol	Water	0.1 M HCI	0.1 M NaOH
	Maximum of absorption	247 nm		240 nm	255 nm
	E 1% 1cm	850		642	710
	3	12850		9710	10740



#### Resorcinol

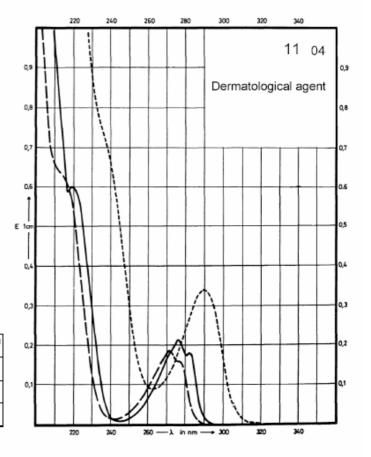


OH OH

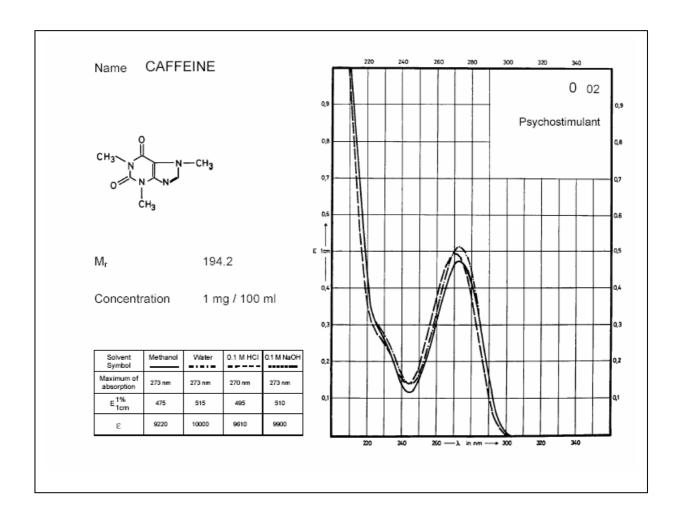
M<sub>r</sub> 110.1

Concentration 1 mg / 100 ml

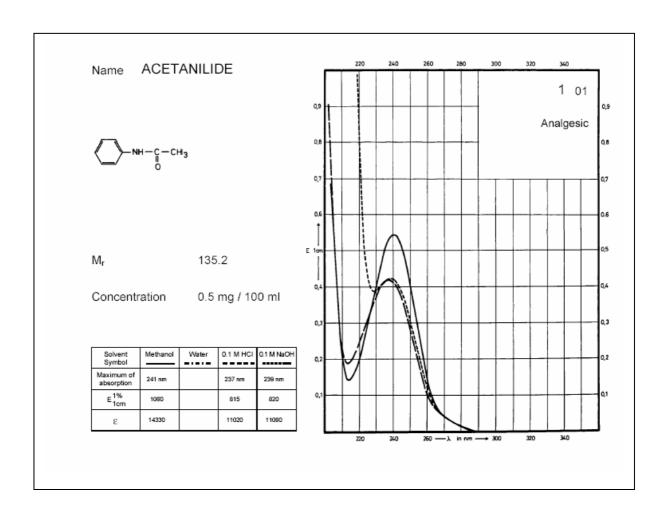
	Solvent Symbol	Methanol	Water	0.1 M HCI	0.1 M NaOH
	Maximum of absorption	276 nm		272 nm	289 nm
	E <sup>1%</sup> 1cm	194		169	312
	3	2140		1860	3440



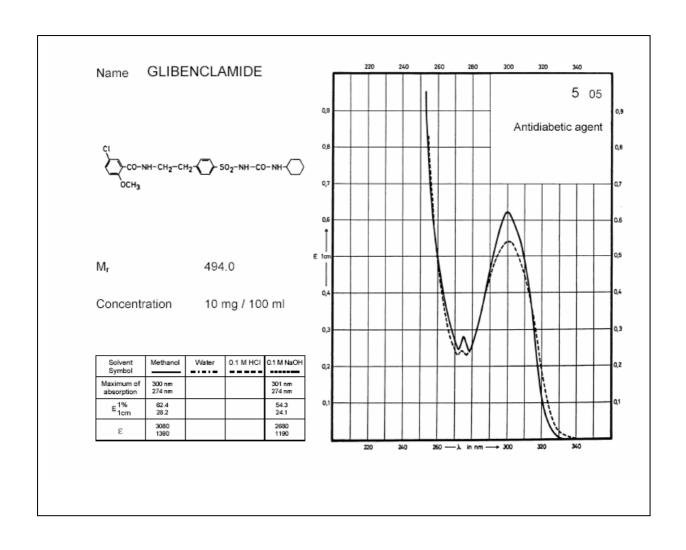
### **Caffeine**



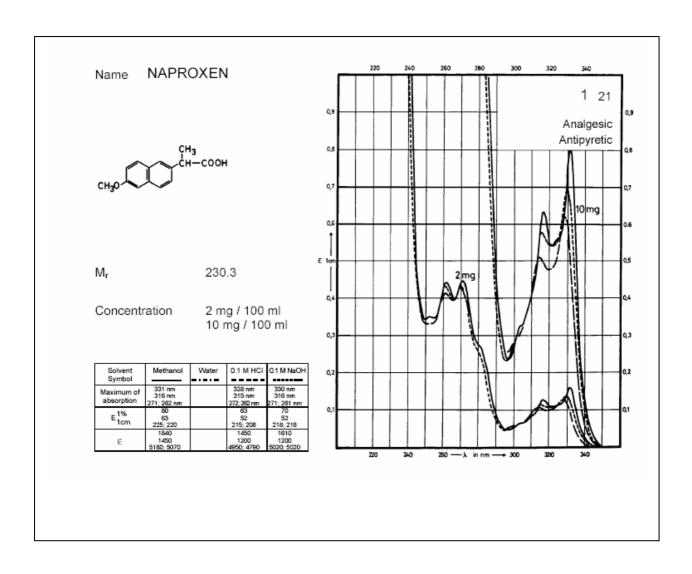
#### **Acetanilide**



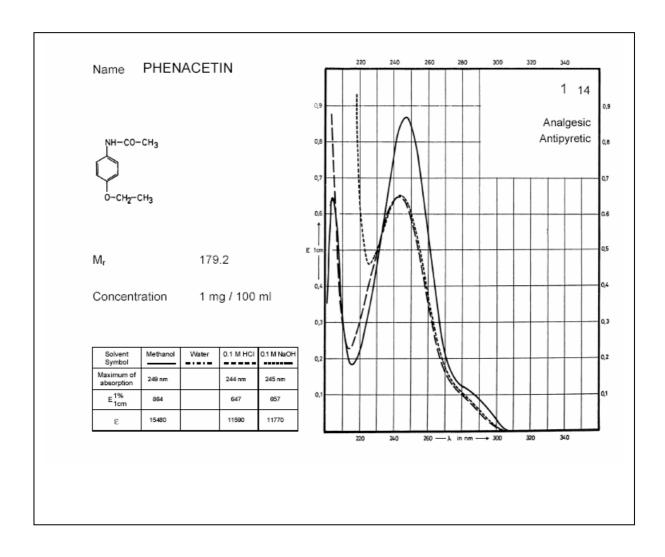
### **Glibenclamide**



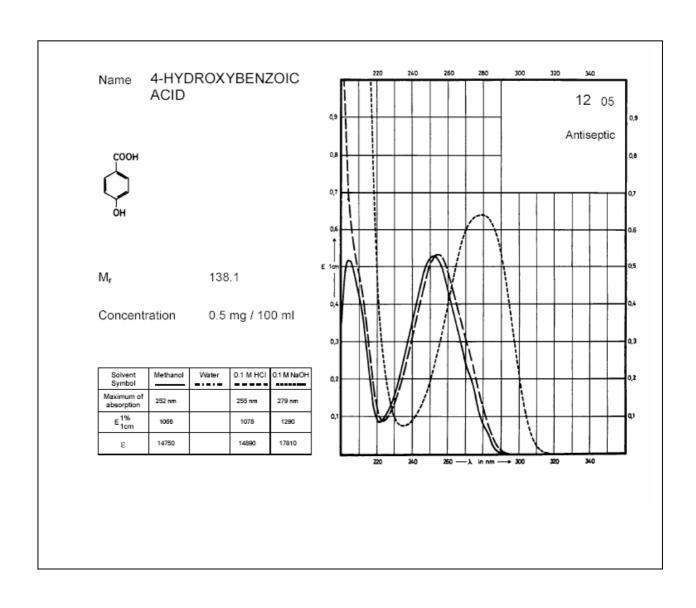
### Naproxen



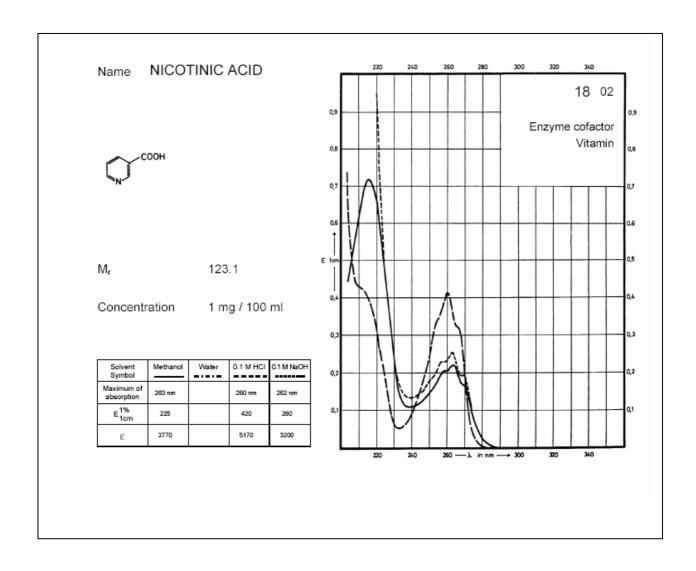
### **Phenacetin**



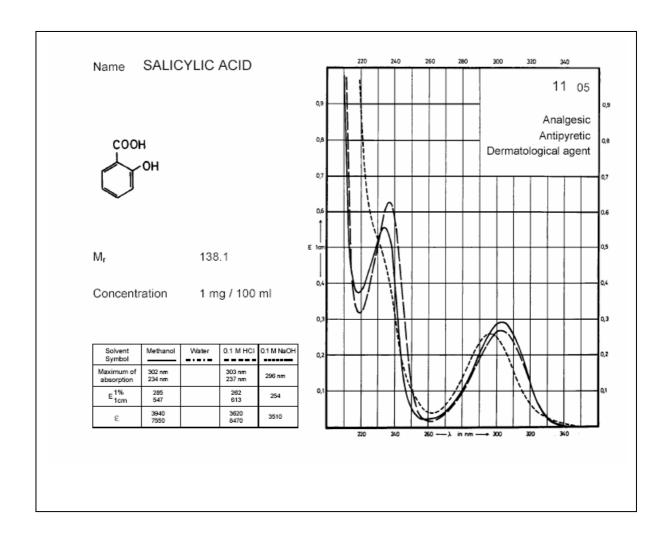
# 4-Hydroxybenzoic acid



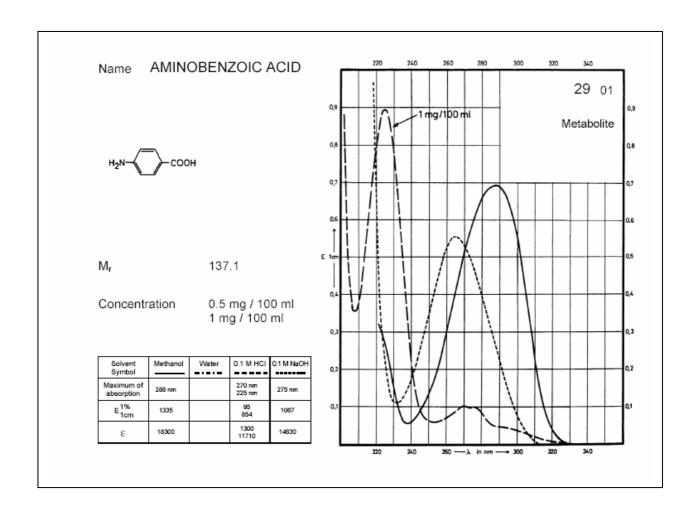
### **Nicotinic acid**



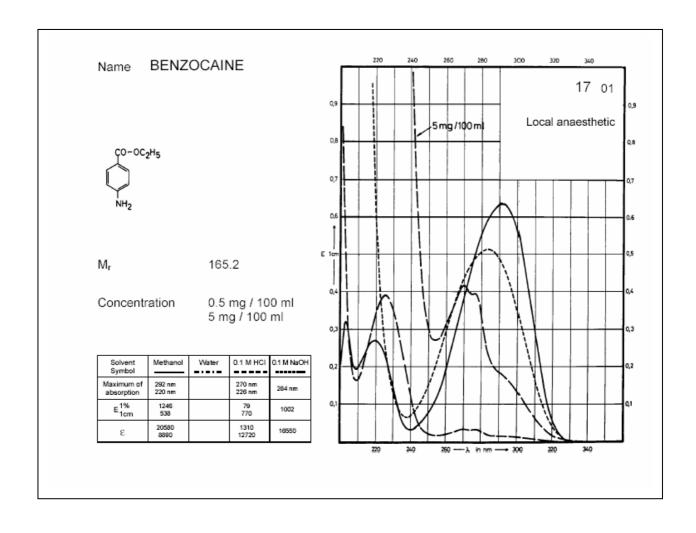
# Salicylic acid



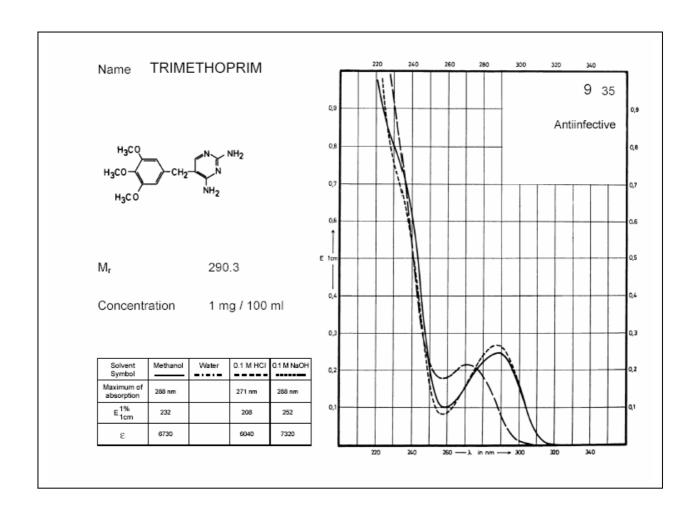
#### **Aminobenzoic acid**



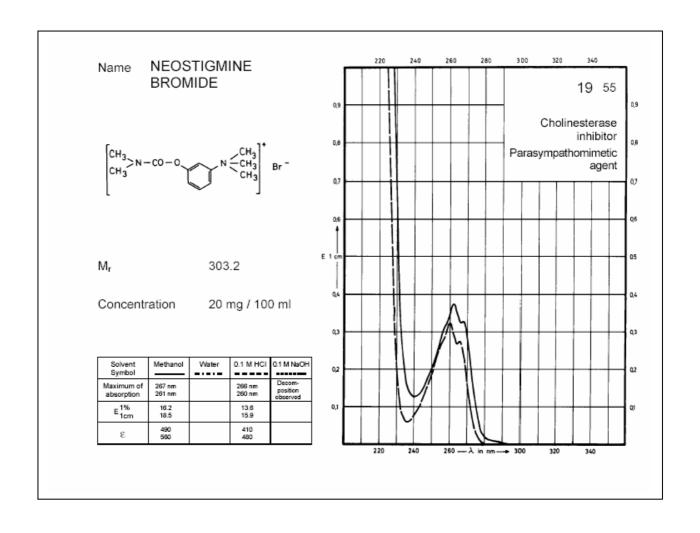
#### **Benzocaine**



# **Trimethoprim**



## **Neostigmine bromide**



## **Ephedrine hydrochlorid**

