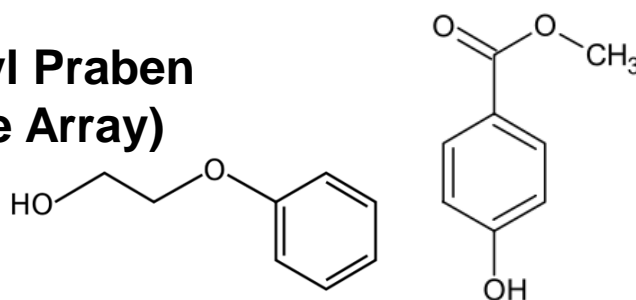
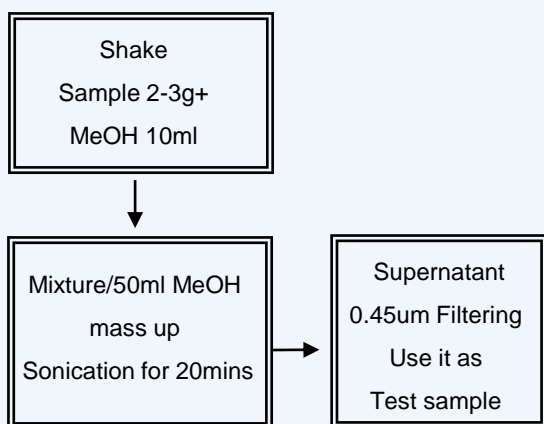


# Phenoxy Ethanol And Methyl Praben Analysis By PDA(Photodiode Array)

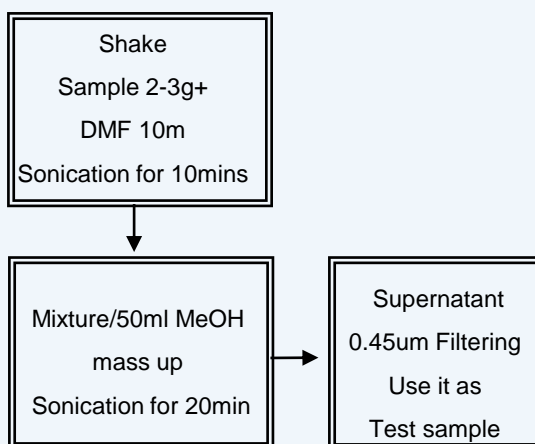


## 1. Preconditioning of Sample

### Skin, Lotions



### Cream, Sunblocks



## YL 9100 HPLC

### 2. Analytical Condition

Mobile phase : A-Water 0.1% Acetic acid  
B-MeOH

Column Oven : 35°C

Detector : PDA (257nm)

Column : C18  
(4.6\*250mm, 5um)

Injection Volumn :  
20ul sample loop

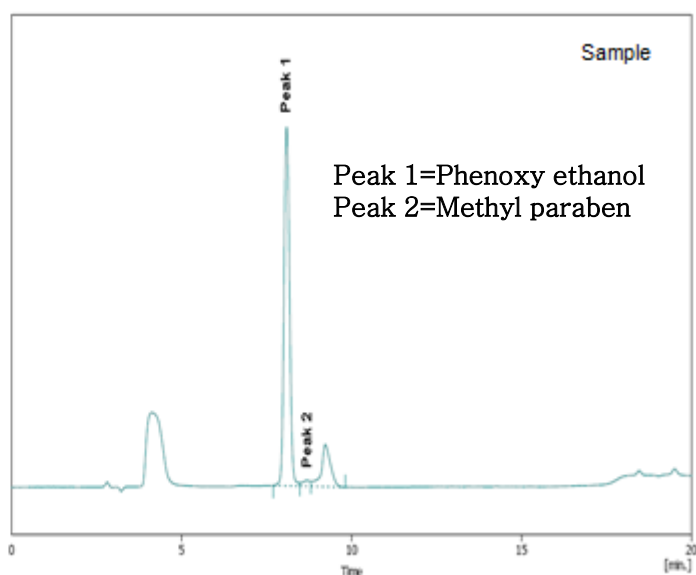
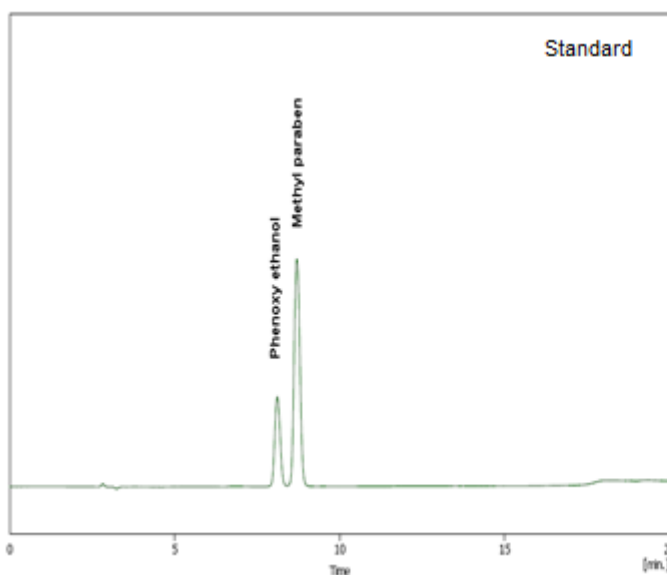
### <Gradient Program>

Time(min)	Flow rate(ml/min)	A	B
0	1	55	45
5	1	50	50
8	1	40	60
12	1	30	70
19	1	0	100
22	1	0	100
23	1	55	45

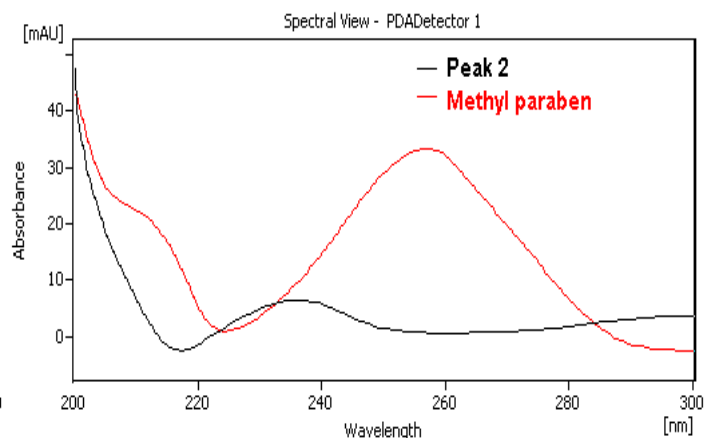
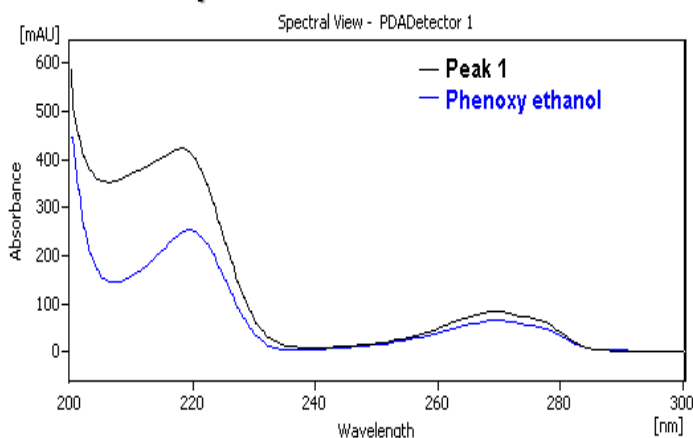


## Phenoxy Ethanol And Methyl Praben Analysis By PDA(Photodiode Array)

### 3. Chromatogram



### 4. PDA Spectrum



\* According to the result, **Peak 1** and **Phenoxy ethanol** have same spectrum patten each other, so can be assumed same compound, but **Peak 2** and **Methyl paraben** have different patters each, so Peak 2 can be assumed like the other compound even though those have same Retention time.