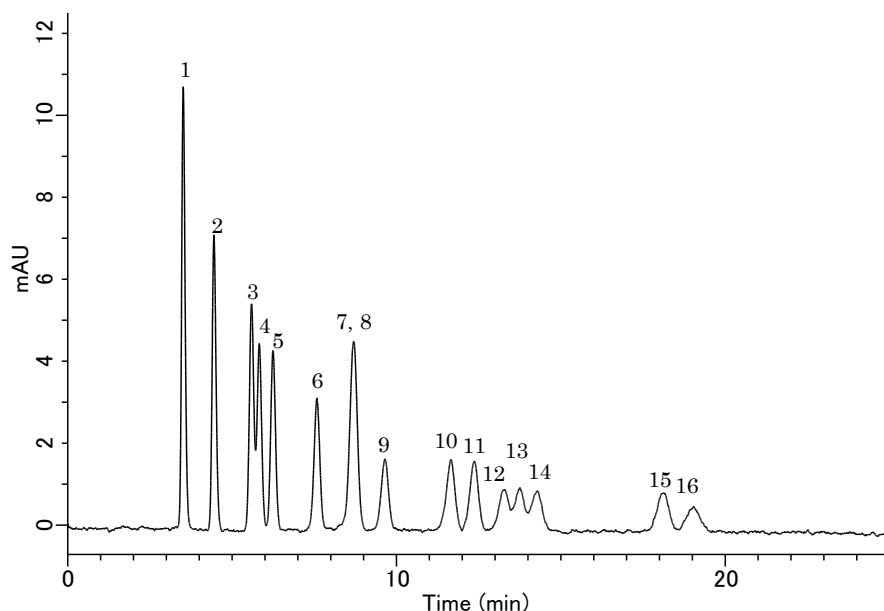


Analysis of 16 kinds of Aldehydes (Detected by Pre-Column Method with DNPH)



Conditions

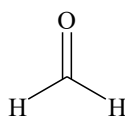
System : GL-7400 HPLC system
Column : Inertsil ODS-P (5 μ m, 250 x 4.6 mm I.D)
Column Cat. No. : 5020-02002
Eluent : A) CH₃CN
 : B) H₂O
 : A/B = 60/40, v/v
Flow Rate : 1.5 mL/min
Col. Temp. : 45 °C
Detection : UV 360 nm (GL-7450 UV Detector)
Injection Vol. : 10 μ L
Sample : Aldehydes

Analyte:

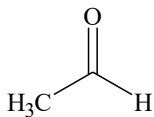
1. Formaldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
2. Acetaldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
3. Acetone [Deriv.]	(200 mg/L in CH ₃ CN)
4. Acrolein [Deriv.]	(200 mg/L in CH ₃ CN)
5. Propionaldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
6. Crotonaldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
7. iso-Butyraldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
8. n-Butyraldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
9. Benzaldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
10. iso-Valeraldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
11. n-Valeraldehyde [Deriv.]	(200 mg/L in CH ₃ CN)
12. o-Tolualdehyde [Deriv.]	(200 mg/L in CH ₃ CN)
13. m-Tolualdehyd [Deriv.]	(200 mg/L in CH ₃ CN)
14. p-Tolualdehyde [Deriv.]	(200 mg/L in CH ₃ CN)
15. Hexanal [Deriv.]	(200 mg/L in CH ₃ CN)
16. 2,5-dimethylbenzaldehyde [Deriv.]	(200 mg/L in CH ₃ CN)

Analysis of 16 kinds of Aldehydes (Detected by Pre-Column Method with DNPH)

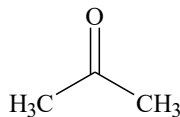
Chemical Structure



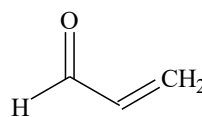
1. Formaldehyde



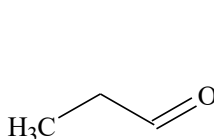
2. Acetaldehyde



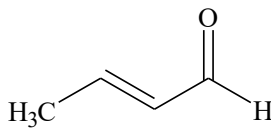
3. Acetone



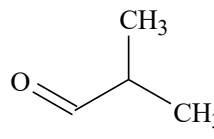
4. Acrolein



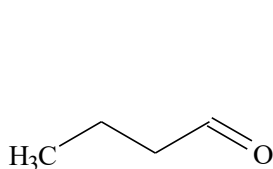
5. Propionaldehyde



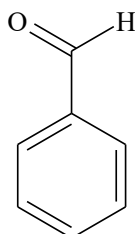
6. Crotonaldehyde



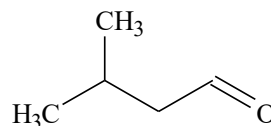
7. iso-Butyraldehyde



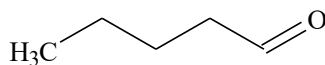
8. n-Butyraldehyde



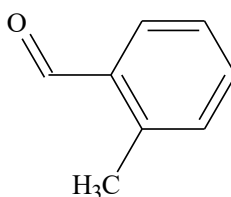
9. Benzaldehyde



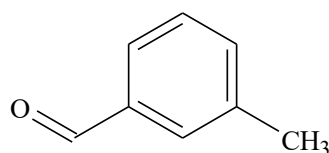
10. iso-Valeraldehyde



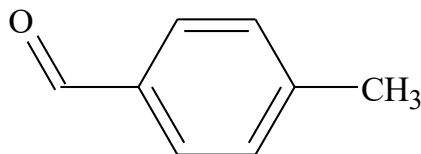
11. n-Valeraldehyde



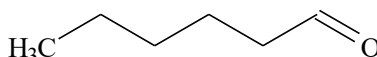
12. o-Tolualdehyde



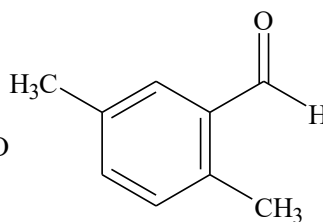
13. m-Tolualdehyde



14. p-Tolualdehyde



15. Hexanal



16. 2,5-dimethylbenzaldehyde