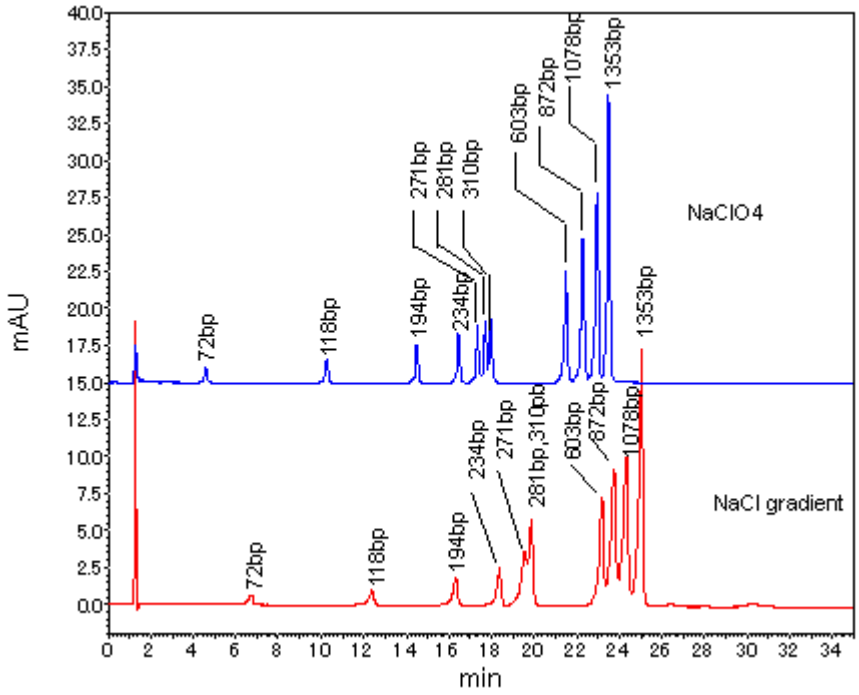
DATA CODE: G00960

Application Title:
Separation of DNA marker (Phi X174-HaeIII digest) by anion-exchange chromatography ~Comparison of NaCl gradient and $NaClO_4$ gradient~

Compound:
Phi X174-HaeIII digest



Chromatographic conditions

Column: TSKgel DNA-STAT , P/N 21962, 5 µm, 4.6 mm ID × 10 cm × 1

Mobile Phase:

NaCl gradient
A; 20 mmol/L Tris-HCl (pH 8.5)
B; 20 mmol/L Tris-HCl + 1 mol/L NaCl (pH 8.5)

time(min)	B(%)
0	75
30	90
35	90
35.1	75
40	75

$NaClO_4$ gradient
A; 20 mmol/L Tris-HCl (pH 8.5)
B; 20 mmol/L Tris-HCl + 0.5 mol/L $NaClO_4$ (pH 8.5)

time(min)	B(%)
0	60
30	75
35	75
35.1	60
40	60

* Tris-HCl pH 8.5 : tris(hydroxy methyl)aminomethane (pH 8.5 with HCl)

Flow Rate: 0.5 mL/min

Detection: UV/VIS @ 260 nm

Chromatographic conditions

Temperature:	25 °C
Injection Volume:	10 µL
Sample(s):	DNA marker
Sample Load:	38.1 mg/L
Instrument:	Agilent 1120 Compact LC

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