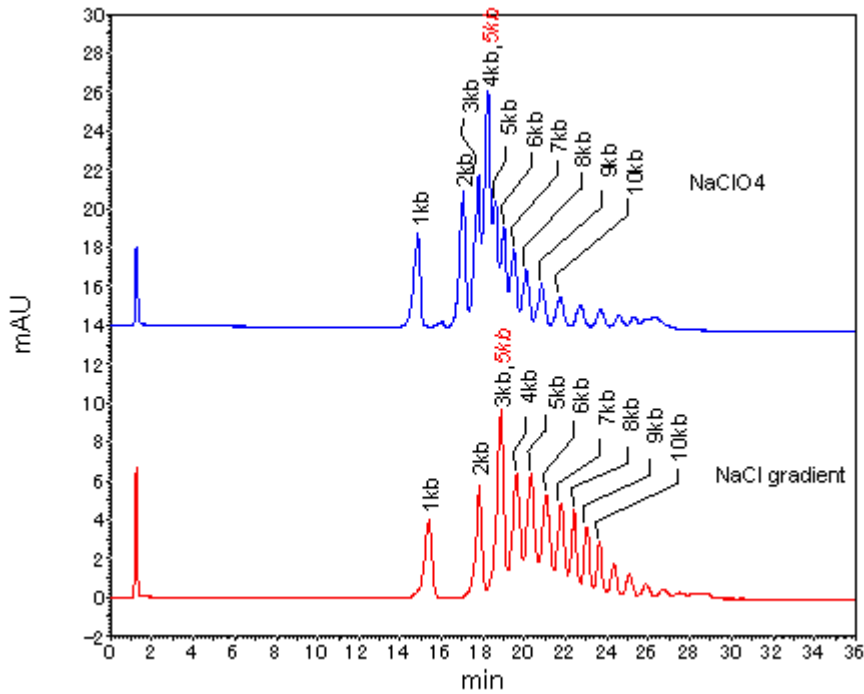


**Application Title:**

Separation of 1kb DNA Ladder Marker by anion-exchange chromatography ~Comparison of NaCl gradient and NaClO<sub>4</sub> gradient~

**Compound:**

1kb Molecular Ruler (DNA marker)

**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(%)

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0 80

60 95

60.1 100

65 100

65.1 80

70 80

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NaClO<sub>4</sub> gradient

A; 20 mmol/L Tris-HCl (pH 8.5)

B; 20 mmol/L Tris-HCl + 0.5 mol/L NaClO<sub>4</sub> (pH 8.5)

time(min) B(%)

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0 65

60 80

60.1 100

65 100

65.1 65

70 65

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

**Flow Rate:**

0.5 mL/min

## Chromatographic conditions

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<b>Detection:</b>	UV/VIS @ 260 nm
<b>Temperature:</b>	25 °C
<b>Injection Volume:</b>	3 µL
<b>Sample(s):</b>	DNA marker
<b>Sample Load:</b>	200 mg/L
<b>Instrument:</b>	Agilent 1120 Compact LC

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