

# Younglin Application Note

REF No. : YL-APP-989001IC

## Subject : Anionic Compounds Analysis using IC

### Key Words

: Chloride, Nitrate, Phosphate, Sulfate, IC

### Introduction

Standard mixture was analyzed by IC with a suppressor

### Instrument

- Younglin 9100 IC
- Waters 431 Conductivity Detector
- Younglin Autochro-WIN

### Analytical Conditions

- Column : IC-PAK Anion(50 x 4.6 mm x 10 um)
- Mobile Phase : Borate/Gulconate
- Flow rate : 1 ml/min
- Injection volume : 100 ul

### Sample

	Step 1	Step 2	Step 3
Chloride(Cl <sup>-</sup> )	1 ppm	2 ppm	3 ppm
Nitrate(NO <sub>3</sub> <sup>-</sup> )	2 ppm	4 ppm	8 ppm
Phosphate(HPO <sub>4</sub> <sup>-2</sup> )	3 ppm	6 ppm	12 ppm
Sulfate(SO <sub>4</sub> <sup>-2</sup> )	3 ppm	6 ppm	12 ppm

### Chromatogram

