

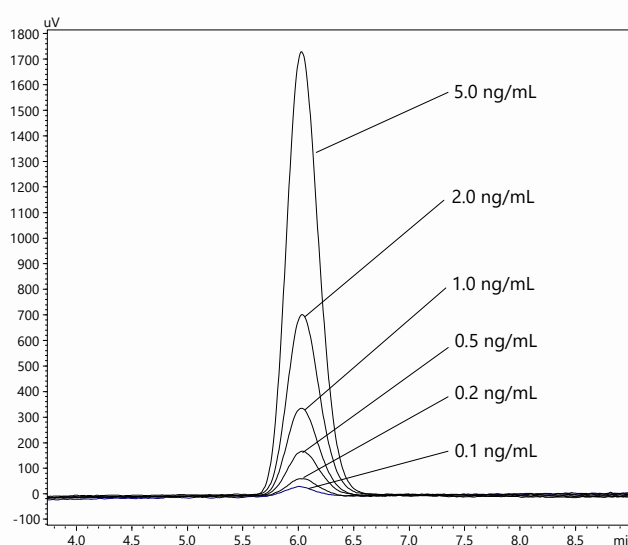
**CoreFocus**  
**Report**  
**No.126**

Ion Chromatography (IC)

Shim-pack Series

**Shim-pack™ IC-SA2**  
**Measuring Hexavalent Chromium**  
**Compounds**

**Keywords:** air pollutants, Cr, diphenyl carbonohydrazide



1. Potassium dichromate

System	: Prominence™ HPLC
Column	: Shim-pack IC-SA2 (250 mm L. x 4.0 mm I.D., 9 μm), P/N : 228-38983-91
Guard column	: Shim-pack IC-SA2G (10 mm L. x 4.6 mm I.D.), P/N : 228-38983-92
Mobile phase	: 10 mmol/L Sodium carbonate/ 10 mmol/L Sodium bicarbonate
Flow rate	: 1.0 mL/min
Column temp.	: 40 °C
Injection vol.	: 0.25 mL
Post Column Derivatization	
Reaction reagent	: 2 mmol/L Diphenyl carbonohydrazide -10 %-Methanol-0.5 mol/L Sulfate
Flow rate	: 0.2 mL/min
Reaction temp.	: 40 °C
Reaction coil	: 0.5 mm I.D. x 8 m L. (PTFE)
Detection	: UV-VIS detector at 540 nm (SPD-20AV, W lamp, Inert cell)

Source : Application News L528 ([JP](#), [ENG](#))

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