

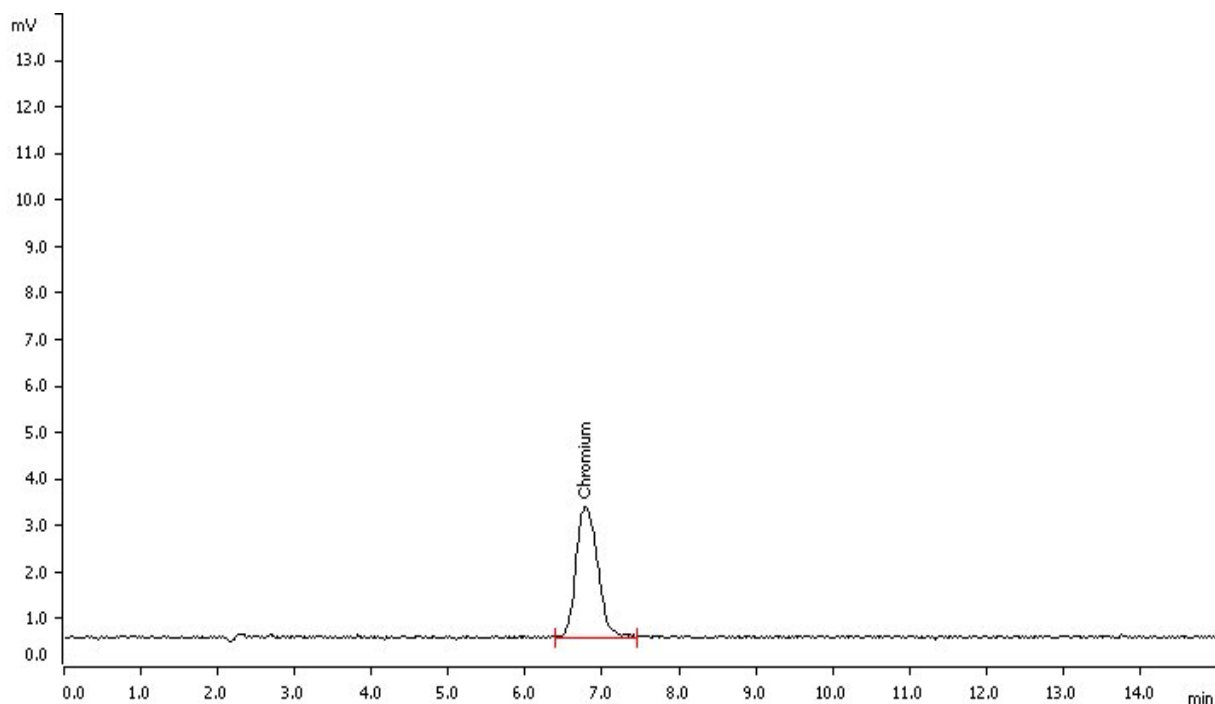
# IC Application Note No. U-41

**Title:** Chromium(VI) in polymers as per IEC 62321 method for RoHS testing

**Summary:** The determination of chromium(VI) polymers applying anion exchange chromatography with UV/VIS detection after post-column reaction with diphenylcarbazide as per IEC 62321 method for RoHS testing.

**Sample:** Finely ground polymer sample (less than 1 mm)  
**Sample Preparation:** Alkaline digestion

**Column:** 6.1006.520 Metrosep A Supp 5 – 150  
**Wavelength:** 540 nm  
**Eluent:** 10.0 mmol/L carbonate, 1.0 mmol/L hydrogencarbonate  
**Flow:** 0.7 mL/min **PCR flow:** 0.6 mL/min  
**Injection Volume:** 20 µL



<b>Chromatogram:</b>	Chromate as Cr
<i>Polymer sample, spiked</i>	<b>0.5 mg/L</b>
<i>Corresponding to Cr(VI) in polymer</i>	<b>100 mg/kg</b>