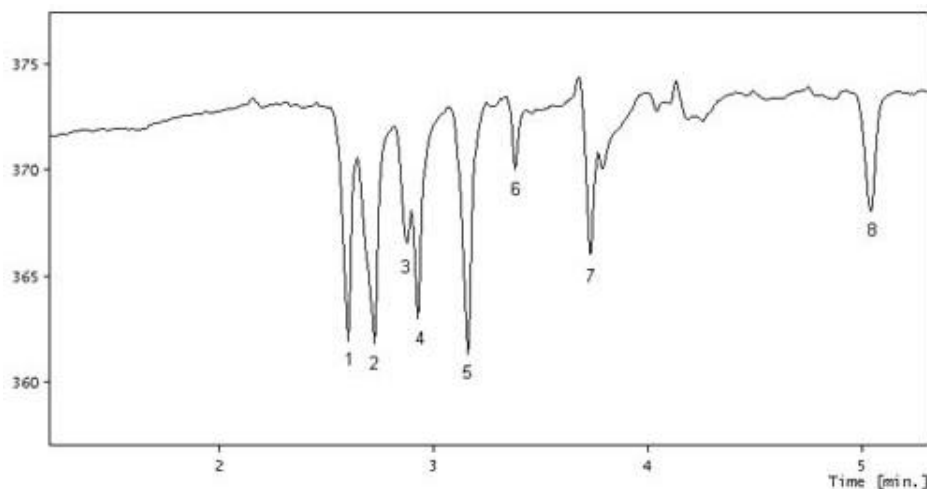


APPLICATION NOTE

Application Note : 003

Title of application :
Determination of Boron

Area of application :
Water Analysis



Conditions :

Buffer	CE-Boric acid kit
Sample	1. Cl ⁻ ; 2. Br ⁻ /NO ₂ ⁻ ; 3. NO ₃ ⁻ ; 4. SO ₄ ²⁻ ; 5. F; 6. PO ₄ ³⁻ ; 7.CO ₃ ²⁻ ; 8.Boron (5ppm)
Capillary	50µm ID, 35 cm Length
Injection mode	Hydrodynamic injection for 30 seconds at height of 10 cm
Separation setting	-7kV
Instrument used	CE-P1

Description :

CE-P1 provides a rapid and sensitive method for determination of Boron in natural water. No sample pre-treatment is required. No interference from other common anions, such as chloride, nitrate, sulphate and carbonate are observed.

As high level of boron is toxic, it is a required testing item for natural water analysis. The traditional methods, such as colorimetric determination by carminic acid and potentiometric determination are labour intensive and quite tedious.