

# Analysis - Ions analysis

## ICSep™ columns

The resins used for anion and cation exchange chromatography in IC employ a functionalized, macroporous polystyrene divinyl benzene polymer. Resins functionalized with quaternary alkyl or alkyl ammonium groups are used with hydroxide or carbonate-based eluents for anion exchange. Resins functionalized with sulfonic acid or carboxylic acid groups are used with acidic eluents for cation exchange.

IC columns have been designed to be compatible with the main part of Ion chromatography systems. They are an excellent alternative to columns which meet the EPA methods requirements.

### ICSep™ AN300 (anion exchange)

- Designed for EPA 300 method
- Peek hardware

| Description          | Dimension    | P/N                |
|----------------------|--------------|--------------------|
| Column AN 300        | 150 x 5.5 mm | <b>ANX-99-7613</b> |
| Guard cartridges /3u | 10 x 3.0 mm  | <b>ANX-99-0010</b> |
| Guard holder         | 10 mm        | <b>ANX-99-0050</b> |

### ICSep™ AN2 (anion exchange)

- High capacity

| Description          | Dimension    | P/N                |
|----------------------|--------------|--------------------|
| Column AN 2          | 250 x 4.6 mm | <b>ANX-99-8515</b> |
| Guard cartridges /3u | 10 x 3.0 mm  | <b>ANX-99-0015</b> |
| Guard holder         | 10 mm        | <b>ANX-99-0050</b> |

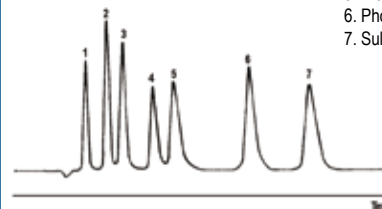
### ICSep™ CN2 (cation exchange)

| Description           | Dimension    | P/N                |
|-----------------------|--------------|--------------------|
| Column CN2            | 100 x 3.2 mm | <b>CTX-99-5250</b> |
| Column CN2            | 50 x 4.6 mm  | <b>CTX-99-3550</b> |
| Guard cartridges / 2u | 10 x 3.0 mm  | <b>CTX-99-1350</b> |

#### Inorganic anions EPA 300.0 method

AN 300, PEEK : 150 x 5.5 mm  
Eluent : 1.7 mM NaHCO<sub>3</sub>, 1.8 mM Na<sub>2</sub>CO<sub>3</sub>  
Detector : Suppressed conductivity  
Sample volume : 20 µl  
Flow rate : 2.0 ml /min  
T° : Ambient  
Pressure : 500 psi

Samples :  
1. Fluorure (2 ppm)  
2. Chlorure (20 ppm)  
3. Nitrite (2 ppm)  
4. Bromure (2 ppm)  
5. Nitrate (10 ppm)  
6. Phosphate (2 ppm)  
7. Sulfate (60 ppm)



| Transgenomic column | Application                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICSep AN300         | F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , HPO <sub>4</sub> <sup>2-</sup> , SO <sub>4</sub> <sup>2-</sup><br>By E.P.A. Method 300.0(a)                                                                                                                                            |
| ICSep AN1           | F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , HPO <sub>4</sub> <sup>2-</sup> , SO <sub>4</sub> <sup>2-</sup> ,<br>Low molecular weight, Organic acids in medium to high ionic strength matrices<br>Cr(III), Cr(VI) as CrO <sub>3</sub> <sup>-</sup> , CrO <sub>4</sub> <sup>2-</sup> |
| ICSep ANSC          | Polyvalent Phosphates, Arsenates, Sulfite Selenate, Arsenite, Selenite,<br>F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , HPO <sub>4</sub> <sup>2-</sup> , SO <sub>4</sub> <sup>2-</sup> ,<br>Low molecular weight, Organic acids                                                     |
| ICSep AN1SC         | F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , HPO <sub>4</sub> <sup>2-</sup> , SO <sub>4</sub> <sup>2-</sup> ,<br>Low molecular weight, Organic acids in medium to high ionic strength matrices                                                                                      |
| ICSep AN2           | Arsenate, Sulfite, Selenate, Arsenite, Selenite F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , HPO <sub>4</sub> <sup>2-</sup> , SO <sub>4</sub> <sup>2-</sup> ,<br>Low molecular weight Organic acids                                                                                 |
| ICSep AN300B        | F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , HPO <sub>4</sub> <sup>2-</sup> , SO <sub>4</sub> <sup>2-</sup> , ClO <sub>2</sub> <sup>-</sup> , ClO <sub>3</sub> <sup>-</sup> , BrO <sub>3</sub> <sup>-</sup>                                                                         |
| ICSep CN2           | Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Rb <sup>+</sup> , Cs <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , NH <sub>4</sub> <sup>+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup> , Zn <sup>2+</sup> ,<br>Co <sup>2+</sup> , Cd <sup>2+</sup> , Pb <sup>2+</sup> , Mn <sup>2+</sup> , Fe <sup>2+</sup> , Fe <sup>3+</sup>                 |