

Avantor® Allsep Anion

for applications of anions, acid ions, metal complexes and organic acids

Avantor® Allsep Anion is a methacrylate based phase with quaternary ammonium functional groups, optimised for use with both suppressed and non-suppressed conductivity detection. Columns are compatible with common IC mobile phases, such as carbonate, bicarbonate, p-hydroxybenzoic acid, phthalic acid, succinic acid, and sodium octane sulfonate. Avantor® Allsep Anion is recommended for applications involving inorganic anions, weak and strong acid ions, metal complexes and organic acids. It meets the requirements for the EPA method 300.0 Part A for determination of inorganic ions in water.

Key Features

- 7 µm polymer-based anion exchange phase
- Suppressed or non-suppressed conductivity detection
- pH range 2–10
- Use with 0–100 % organic modifier
- USP L23

ORDERING INFORMATION

7 µm

Length (mm)	50	100	150	250	
i.d. (mm)	4.6	4.6	2.1	4.6	2.1
Stainless Steel	51214	51200	51210	51208	51212
PEEK (metal-free)	51213	51207	–	51209	–

Length (mm)	Guard cartridges (3/pk) ¹	Guard cartridges (3/pk) ¹	Guard cartridge kits ²	Guard cartridge kits ²
i.d. (mm)	For 2.1	For 3.0–4.6	For 2.1	For 3.0–4.6
Stainless Steel	38110/S	38108/S	38111/S	38109/S
PEEK (metal-free)	–	38108	–	38109

¹ All-Guard cartridge holder and coupler (80101/N and HI-081) for stainless steel hardware and 80101 for PEEK hardware required.

² Includes All-Guard cartridge holder and coupler (80101/N and HI-081) for stainless steel hardware, 80101 for PEEK hardware, and 3 guard cartridges.

CONDITIONS

Columns: Avantor® Allsep Anion, 100 x 4.6mm (p/n: 51207)
Mobile phase: 4 mM p-Hydroxybenzoic Acid, pH 7.5 with LiOH
Flow rate: 1.0 mL min⁻¹
Column temperature: 35 °C
Detector: Conductivity

- | | |
|--------------------|---------------------|
| 1 Fluoride, 10 ppm | 5 Bromide, 20 ppm |
| 2 Carbonate | 6 Nitrate, 20 ppm |
| 3 Chloride, 20 ppm | 7 Phosphate, 30 ppm |
| 4 Nitrite, 20 ppm | 8 Sulfate, 30 ppm |

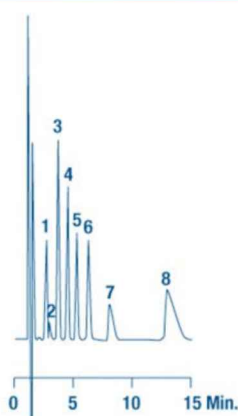


FIGURE 12: Anions with p-HBA Mobile Phase.