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Thermo Scientific™

## Dionex™ IonPac™ CS12A IC Columns

Separate common cations in diverse matrices in 4 minutes using isocratic acidic eluents with this moderate-capacity, carboxylate-functionalized cation-exchange column.

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Catalog Number	Length (Metric)	Diameter (Metric)	Column Type
<b>046073</b>	250 mm	4 mm	Analytical Column
046074	50 mm	4 mm	Guard Column



046076	50 mm	2 mm	Guard Column
057184	30 mm	3 mm	Guard Column
057185	150 mm	3 mm	Analytical Column

Catalog number **046073**



Price (MDL)

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**Length (Metric):** 250 mm  
**Diameter (Metric):** 4 mm  
**Column Type:** Analytical Column

[Product Overview](#)



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Separate common cations in as little as four minutes using methanesulfonic acid (MSA) or sulfuric acid eluents with Thermo Scientific™ Dionex™ IonPac™ CS12A Cation-Exchange Columns. These medium-capacity, carboxylate-functionalized cation-exchange columns are recommended for fast, isocratic separation of lithium, sodium, ammonium, potassium, magnesium, and calcium in diverse sample matrices. The IonPac CS12A column is the recommended replacement for all IonPac CS12 column applications.

#### Analysis of Common Cations plus Ammonium in Diverse Sample Matrices

- Superior fast isocratic separation of mono- and divalent cations plus ammonium in diverse, complex matrices
- Isocratic separation of Group I and II cations plus ammonium in 15 minutes in diverse matrices using a 250mm column
- Fast, high resolution, isocratic separation of Group I and II cations plus ammonium in 4 minutes in simple matrices using 150mm column
- Higher-capacity applications use 250mm columns, allowing injection of more concentrated samples without overloading or peak broadening
- High efficiency, fast analysis use the 150mm column for increased sample throughput
- Dionex IonPac CS12A-MS column provides fast elution at the low flow rates required for IC-MS, making it the ideal choice for IC-MS screening

### Recommended for Common Cations and Ammonium in Diverse Sample Matrices

- Source water and drinking water, municipal and industrial wastewater, soil extracts, acid digests
- Industrial cooling water, scrubber solutions; plating baths; and industrial solvents
- Power plant waters treated with ammonium or morpholine; chemical additives; chemical process solutions

### Reduce Operating Costs With Lower Eluent Requirements

The Dionex IonPac CS12A capillary columns provide the same performance as the standard bore and microbore Dionex IonPac CS12A columns because they are packed with the same material. Operating costs are reduced because the capillary system operates at only 1% of the eluent flow rate of the standard bore system, requiring less eluent and producing less waste.

### Multiple Formats Available for Application Flexibility

- 4x250mm, 2x250mm, 3x150mm or 2x100mm analytical columns
- 4x50mm or 2x50mm, 3x30mm guard columns
- 0.4x250mm, 0.4x150mm capillary columns
- 0.4x50mm or 0.4x35mm capillary guard columns
- Longer 250mm columns facilitate higher resolution separations of more complex sample matrices
- Shorter 150mm and 100mm columns produce faster runs of relatively clean matrices
- Smaller i.d. columns provide higher mass sensitivity, eluent and reagent conservation and lower operating costs

**Limited warranty period:** Subject to all warranty requirements and exclusions set out in our Terms and Conditions of Sale, this product is warranted from the date we ship the product and for ninety (90) days thereafter. **Disclaimer to internal research use restriction:** Any restrictions on the purchaser to utilize the product(s) for internal research purposes only does not apply to the product(s) on the web pages associated with this statement.

Specifications	
Column Capacity	2800 µeq
Column Chemistry	Acidic
Crosslinking	55% DVB
Flow Rate	1.0 to 2.0 mL/min.
For Use With (Application)	Cation Exchange
For Use With (Equipment)	CSRS
Green Features	FSC
Hydrophobicity	Medium
Max. Pressure	4000 psi (275 bar)
Packing Material	Ethylvinylbenzene/Divinylbenzene



<b>Solvent Compatibility</b>	Acidic Eluents, 0 to 100% Acetonitrile, Alcohols Should be Avoided
<b>Solvents</b>	0 to 100% Acetonitrile. Alcohols Should be Avoided.
<b>Stationary Phase</b>	IonPac CS12A-8µm
<b>Column Type</b>	Analytical Column
<b>Diameter (Metric)</b>	4 mm
<b>Format</b>	Standard Bore
<b>Length (Metric)</b>	250 mm
<b>Unit Size</b>	Each 1



**Have questions about this product? Ask our AI assisted search.**

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## Documents & Downloads

### Certificates



<a href="#">240311358</a>	Certificate of Analysis	Jun 10, 2024	046074
<a href="#">240308363</a>	Certificate of Analysis	Jun 10, 2024	046074
<a href="#">240312086</a>	Certificate of Analysis	Jun 10, 2024	046074
<a href="#">240311359</a>	Certificate of Analysis	Jun 10, 2024	046074

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## Scientific Resources


### Application Notes



- [Li/LiMn2O4型電池の電解質溶液中のマンガンイオンの定量\[JA\]](#)
- [Application Note: Ions In Physiological Fluids](#)
- [Application Brief: Determination of Cations in Fruit Juices](#)
- [Application Note: Monitoring Inorganic Anions and Cations During Desalination](#)
- [Application Note: Determination of Dissolved Manganese in Lithium/Manganese Oxide Battery Electrolyte](#)
- [Application Note: Determination of Trace Sodium in Cranberry Powder](#)
- [Application Note: Determination of Parts-Per-Trillion Concentrations of Strontium by Pre-Concentration with Ion Chromatography and Suppressed Conductivity Detection](#)
- [Application Update: Determination of Manganese in Brine \( \$\geq 30\%\$  NaCl\)](#)
- [Application Note: Identification and Quantification at ppb Levels of Common Cations and Amines by IC-MS](#)
- [Application Note: Determination of Calcium and Magnesium in Brine](#)



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 [Application Update: Determination of Trace Lithium in Industrial Process Waters](#)

## Product Information

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### Manuals

 [IonPac CS12A Analytical Column and CG12A Guard Column Product Manual](#)

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### Specification Sheets

 [Specification Sheet: IonPac CS12A Cation-Exchange Column](#)