

Ion Exchange Resins for Analytical Applications

Eichrom supplies an expanding range of cation and anion exchange resins, purified for the needs of analytical applications. These resins are comparable in quality and performance to the AG[®] Resins supplied by Bio-Rad[®] Laboratories. Eichrom Technologies has 16 years of expertise in analytical sample preparation and possesses technical support facilities for radiological and wet chemical applications. Our focus is the development and support of sample preparation methodologies for chemical and biochemical analysis.

Cation Exchange Resins

Eichrom's line of cation exchange resins for analytical applications are type 50W strong acid cation exchange resins (sulfonic acid exchange groups on styrene divinyl benzene polymeric beads.) Our resins are available in 4% and 8% DVB cross linkages. All our cation exchange resins are provided in hydrogen form.

| Cation Exchange Resin Specifications | | | |
|---------------------------------------------|----------------------------------------|---------------------------------|-------------------------------------|
| <i>% crosslinked</i> | <i>Minimum Wet Exch. Cap. (meq/ml)</i> | <i>Water Ret. Cap. (H Form)</i> | <i>Maximum Extractable Residue*</i> |
| 4% | 1.1 | 64 - 72% | 1 mg/g |
| 8% | 1.7 | 50 - 58% | 1 mg/g |

*Per ASTM D 5627, Standard Test Method for Water Extractable Residue from Particulate Ion Exchange Resins

Anion Exchange Resins

Eichrom's line of analytical anion exchange resins are type 1 strong base anion exchangers (quarternary amine functional groups on styrene divinyl benzene polymeric beads.) DVB cross linkages of 4% and 8%. All resins are available in the chloride form.

| Anion Exchange Resin Specifications | | | |
|--------------------------------------------|----------------------------------------|----------------------------------|-------------------------------------|
| <i>% crosslinked</i> | <i>Minimum Wet Exch. Cap. (meq/ml)</i> | <i>Water Ret. Cap. (Cl Form)</i> | <i>Maximum Extractable Residue*</i> |
| 4% | 1.0 | 55 - 63% | 1 mg/g |
| 8% | 1.2 | 39 - 45% | 1 mg/g |

*Per ASTM D 5627, Standard Test Method for Water Extractable Residue from Particulate Ion Exchange Resins

Our ion exchange resins are available in a variety of package sizes including: 500 gram bottles, cases of 9 bottles, and 10 kg drums. We offer a range of particle sizes for each resin. Please consult our product guide (on the reverse side) for specific particle size and part number detail. If you do not see what you are looking for, contact Eichrom to discuss your application.

Anion Exchange Resins (Analytical Grade, Chloride Form)

| Comparable Bio-Rad® Part Number | Bio-Rad Product Description | Eichrom Part Number | Eichrom package size | Eichrom Product Description | Dry Mesh Size |
|----------------------------------------|------------------------------------|----------------------------------------------|-------------------------------------------------|------------------------------------|----------------------|
| 140-1431 | AG® 1-X8 | A8-B500-C-CL A8-CS09-C-CL A8-DR10-C-CL | 500 g bottle case of 9 bottles 10 kg drum | 1 x 8 Resin | 50-100 |
| 140-1441 | AG 1-X8 | A8-B500-M-CL A8-CS09-M-CL A8-DR10-M-CL | 500 g bottle case of 9 bottles 10 kg drum | 1 x 8 Resin | 100-200 |
| 140-1451 | AG 1-X8 | A8-B500-F-CL A8-CS09-F-CL A8-DR10-F-CL | 500 g bottle case of 9 bottles 10 kg drum | 1 x 8 Resin | 200-400 |
| 140-1331 | AG 1-X4 | A4-B500-C-CL A4-CS09-C-CL A4-DR10-C-CL | 500 g bottle case of 9 bottles 10 kg drum | 1 x 4 Resin | 50-100 |
| 140-1341 | AG 1-X4 | A4-B500-M-CL A4-CS09-M-CL A4-DR10-M-CL | 500 g bottle case of 9 bottles 10 kg drum | 1 x 4 Resin | 100-200 |

Cation Exchange Resins (Analytical Grade, Hydrogen Form)

| Comparable Bio-Rad® Part Number | Bio-Rad Product Description | Eichrom Part Number | Eichrom package size | Eichrom Product Description | Dry Mesh Size |
|----------------------------------------|------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------|----------------------|
| 142-1431 | AG® 50W-X8 | C8-B500-C-H C8-CS09-C-H C8-DR10-C-H | 500 g bottle case of 9 bottles 10 kg drum | 8% Cross-linked | 50-100 |
| 142-1441 | AG 50W-X8 | C8-B500-M-H C8-CS09-M-H C8-DR10-M-H | 500 g bottle case of 9 bottles 10 kg drum | 8% Cross-linked | 100-200 |
| 142-1451 | AG 50W-X8 | C8-B500-F-H | 500 g bottle | 8% Cross-linked | 200-400 |
| 142-1341 | AG 50W-X4 | C4-B500-M-H C4-CS09-M-H C4-DR10-M-H | 500 g bottle case of 9 bottles 10 kg drum | 4% Cross-linked | 100-200 |

Bio-Rad and AG are registered trademarks of Bio-Rad Laboratories, Inc.

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