



| | Acolo | \//otoro | Cupalaa | Agliant | Varian |
|----------------------------------|--------------------------|-------------------------|---------------------|--------------------------|---------------------------|
| 212 | Ageia | vvaters | Superco | Aglient | Varian |
| | Cleanert C18 | Sep-pak C18 | ENVI-18 | — | Bond Elut C18 |
| (End Capped) | | | | | - |
| | Cleanert | — | — | ACCUBOND C18 | Bond Elut |
| (Without End Capping) | C18-N | | | | C18-OH |
| C8 | Cleanert C8 | Sep-pak C8 | ENVI-8 | AccuBOND C8 | Bond Elut C8 |
| Cyano Group | Cleanert CN | Sep-pak CN | LC-CN | AccuBOND CN | Bond Elut CN |
| Amino Group | Cleanert NH ₂ | Sep-pak NH ₂ | LC- NH ₂ | AccuBOND NH ₂ | Bond Elut NH ₂ |
| Propyl Ethylene Diamine | Cleanert PSA | — | — | — | Bond Elut PSA |
| Quaternary Ammonium Salt | Cleanert SAX | Accell Plus | LC- SAX | AccuBOND | Bond Elut SAX |
| (Strong Anion-exchange | | QMA | | SAX | |
| Cartridge) | | | | | |
| Carboxyl Group | Cleanert | Accell Plus | LC- WCX | — | Bond Elut CBA |
| (Weak Cation-exchange | СООН | СМ | | | |
| Cartridge) | | | | | |
| Propylsulfonic Acid | Cleanert PRS | | — | — | Bond Elut PRS |
| Benzene Sulfonic Acid | Cleanert SCX | | LC- SCX | AccuBOND | Bond Elut SCX |
| (Strong Cation-exchange | | | | SCX | |
| Cartridge) | | | | | |
| Silica Gel | Cleanert Silica | Sep-pak | LC- Silica | AccuBOND | Bond Elut |
| | | Silica | | Silica | Silica |
| Diol | Cleanert Diol | Sep-pak Diol | LC-Diol | AccuBOND Diol | Bond Elut Diol |
| Polystyrene/Divinyl-benzene | Cleanert PS | _ | ENVI- | AccuBOND | <u> </u> |
| | | | Chrom P | ENV PS-DVB | |
| Polar Polymer Cartridge | Cleanert PEP | Oasis HLB | | | Bond Elut [®] |
| | | | | | Plexa |
| Mixed Anion-exchange Cartridge | Cleanert PAX | Oasis MAX | — | | |
| Mixed Cation-exchange Cartridge | Cleanert PCX | Oasis MCX | | | |
| Cartridge Specialized for | Cleanert HXN | | | | <u> </u> |
| Sulfonylureas | | | | | |
| Magnesium Silicate | Cleanert | Sep-pak | LC Florisil | | Bond Elut FL |
| (Florisil) | Florisil | Florisil | | | |
| Graphitized Carbon | Cleanert | _ | ENVI Carb | | |
| | PestiCarb | | | | |
| Neutral Alumina | Cleanert | Sep-pak | LC- | AccuBOND | Bond Elut |
| | Alumina N | Alumina N | Alumina N | Alumina N | Alumina N |
| Acidic Alumina | Cleanert | Sep-pak | LC- | AccuBOND | Bond Elut |
| | Alumina A | Alumina A | Alumina A | Alumina A | Alumina A |
| Basic Alumina | Cleanert | Sep-pak | LC- | AccuBOND | Bond Elut |
| | Alumina B | Alumina B | Alumina B | Alumina B | Alumina B |
| Mixed Graphitized Carbon and | Cleanert | Sep-pak | ENVI Carb/ | | |
| Amino Group Cartridge | PestiCarb/NH | Carb/ NH | NH | | |
| Cartridge Specialized for | Cleanert | | | | |
| Sulfanilamides | SUL-5 | | | | |
| DNPH-Silica Cartridge | Cleanert | Sep-pak | | | |
| (Specialized for Pretreatment of | | DNPH_Silica | | | |
| Aldehydes and Ketones in Air) | | | | | |





| Specification | Quantity of Load |
|---------------|------------------|
| 50 mg/1mL | 2.5 m |
| | 5 mg |
| 200 mg/3mL | 10 m |
| 500 mg/6mL | 25 m |
| 1 g/6mL | 50 m |
| | |

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| Droportion | Sorbent Phase Type | | | | | | |
|---------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|--|--|--|
| Froperties | Normal Phase | Reversed-Phase | Ion Exchange Ph | ase or Mix-phase | | | |
| Typical Sorbents | Silica Florisil Amine (NH ₂) Cyano (CN) Diol | PEP series C18 C18-N C8 | PAX SAX PWAX | PCX SCX PWCX | | | |
| Sorbent Polarity | High | Low | High | | | | |
| Matrix Properties | Organic | Organic or Aqueous | Organic or Aqueous | | | | |
| Analyte Properties | Slightly to Moderately Polar | Non-Polar or Polar | Acidic | Basic | | | |
| Retention | Polar Non-Polar | Non-Polar polar | Ionic Strength | | | | |
| Step 1: Activation | Sample solvent or other organic solvents | Water-miscible organic solvents followed by Water | Water-miscible organic solvents followed by aqueous solution with pH adjusted | | | | |
| Step 2: Sample Loading | Load the sample or with dilution in low polarity solvents | Load the sample or with dilution in high polarity solvents | Load sample or with dilution in high polarity solvents with pH adjusted | | | | |
| Step 3: Washing | Washing with low-polar solvents | Washing with mixture of aqueous solution or buffer with a small amount polar solvent | Washing with Polar organic solvents followed by aqueous solvents with pH adjustment to maintain analytes ionized | | | | |
| Step 4: Elution | Eluting with mixture of non-polar and polar solvents | Eluting with non-polar or polar organic solvents | Eluting with polar solvents with pH adjustment | | | | |

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