Clarity Oligo-WAX[™] LC Columns

High Purity, High Loadability Preparative Ion-Exchange Purification

- Excellent efficiency column results in > 90 % purities due to good fractionation of closely eluting compounds
- · High loading capacity due to very high density ligand
- Increase productivity by running at higher flow rates and pressures
- Columns amenable to HPLC and FPLC systems

Clarity Oligo-WAX LC columns were designed with the synthetic DNA/RNA preparative chromatographer in mind. Oligo-WAX is an advantageous combination of purity, capacity, mechanical strength, cost, and efficiency.

Tailored for Preparative Purification

The majority of synthetic oligo preparative purifications are performed using a strong anion exchanger bonded to a 10 or 15 µm polymer backbone. Polymer backbones are amenable to clean in place protocols and strong anion exchangers have a wide effective pH range. To date, these technologies have been satisfactory for prep purifications and will continue to be. However, due to the fact that Clarity Oligo-WAX is a cross-linked weak anion exchanger bonded to a 10 µm high purity silica, this technology offers advantages such as high loading capacity, excellent peak efficiency, and a robust backbone that aren't available with typically used purification products.

Purify Failure Sequences and Contaminants from Target Sequence

Ion-exchange is an excellent separation mode for purifying contaminants and failure sequences from target sequences. Clarity Oligo-WAX, due to its increased efficiency compared to other ion-exchange columns, has the ability to recognize minute charge differences in nucleotide sequences such as failure sequences or base substitutions.

DNA Purification of N-1 Sequence from Target N Sequence



CE Purity Analysis of Ion-Exchange Purification



SOURCE 15Q. Though SOURCE had a slightly higher recovery of full length oligo, it was not a wide enough margin to offset the purity advantage. Data courtesy of a large, lowa-based oligo manufactur

Comparative separations may not be representative of all applications