



# APPLICATION NEWS

## GreenSep Ethyl Pyridine Columns for SFC

### GreenSep Ethyl Pyridine for Separation of Efavirenz Antiretroviral and its Impurities

Determination of degradation products and process impurities in pharmaceutical active ingredients has always posed a challenge for the analysis of pharmaceutical compounds. Chromatography is the backbone for many of these determinations and stability indicating methods. HPLC has been widely used for many of these methods and determinations. However, with recent improvements in supercritical fluid chromatography (SFC) instrumentation and SFC separation columns many of pharmaceutical active ingredients can be characterized by SFC. SFC has several advantages over HPLC including increased speed of analysis and environmental protection (a “Green” technique).

The SFC separation of Efavirenz, an antiretroviral pharmaceutical active ingredient is shown below using a GreenSep Ethyl Pyridine column. This chromatogram is an example of the superior performance and high resolution capabilities of SFC for the separation of pharmaceutical active ingredients.

