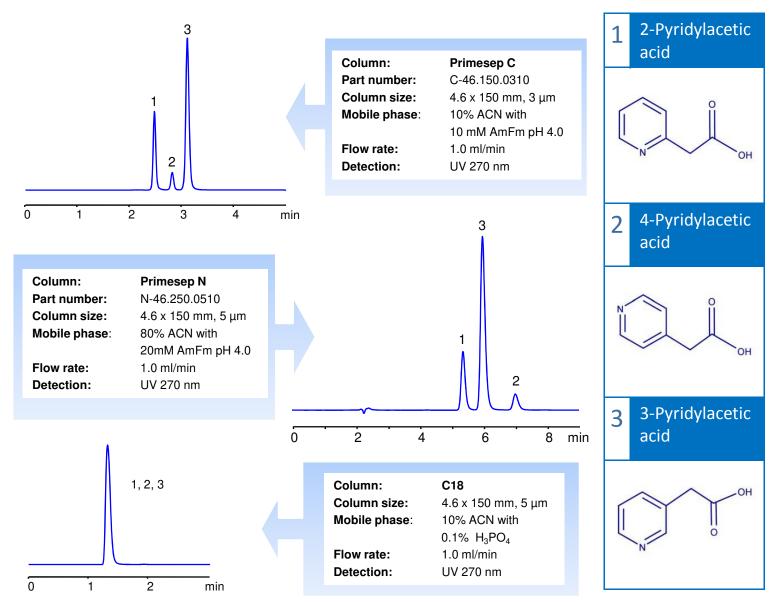
## HPLC SEPARATION OF MIXTURE OF PYRIDYLACETIC ACIDS



## **Application Comments**

Isomers of Pyridylacetic acid are difficult to resolve using traditional single mode separation chromatography due to their similar structure. However in mixed-mode chromatography it is often an easy task. When more than one mode of interaction is involved (e.g. hydrophobic and cation-exchange on Primesep C or hydrophilic and cation-exchange on Primesep N) then small differences in molecule structure can play significant roles in retention and resolution as a result. In this example 3-Pyridylacetic acid, 2-Pyridylacetic acid and 4-Pyridylacetic acid were separated on mixed-mode Primesep C and Primesep N columns, with a simple mobile phase. Elution of compounds can be monitored by UV, Evaporative Light-Scattering (ELSD), Corona (CAD) or MS detection.