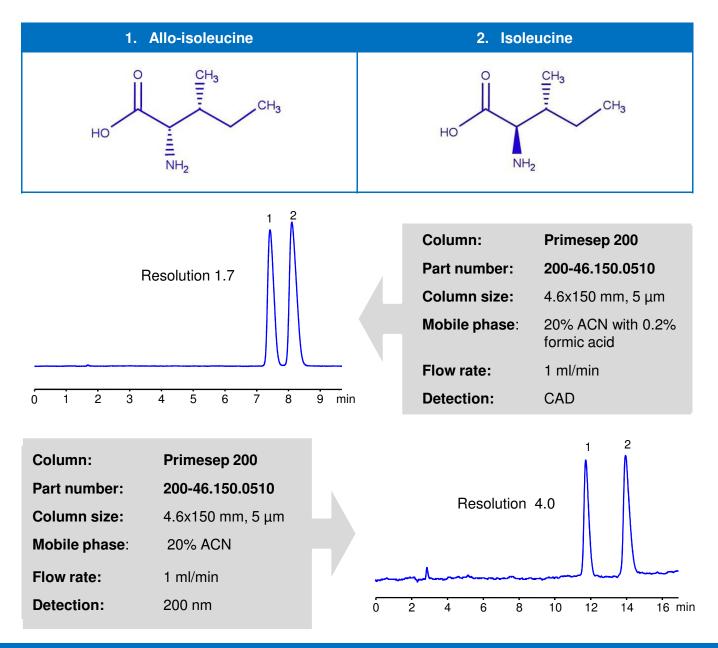


HPLC Separation of Allo-isoleucine and Isoleucine



Application Comments

Diastereoisomers are difficult to resolve using traditional single mode separation chromatography due to their similar interaction with stationary phase as a result of their similar structure. However in mixed-mode chromatography it is often an easy task. When more then one mode of interaction is involved (e.g. hydrophobic and ion-exchange) then small differences in molecule structure can play significant roles in retention and resolution as a result. In this example isoleucine and an allo-isoleucine were separated on mixed-mode Primesep 200 column with simple mobile phase. The conditions are suitable for low-UV or MS (ELSD, CAD) detection.