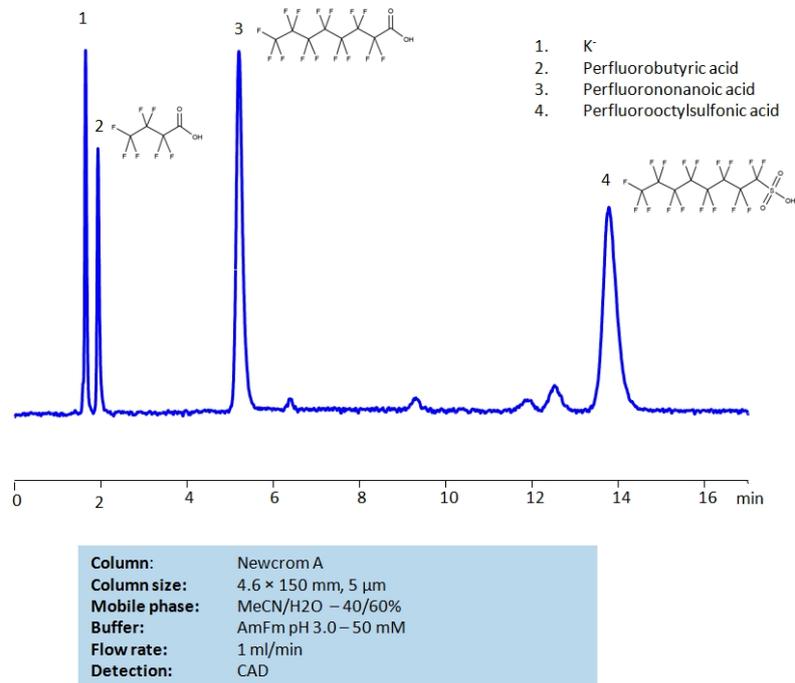


HPLC Separation of Perfluoroalkyl Acids PFBA, PFAO, PEAS on Newcrom A Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Perfluorobutyric Acid (PFBA) , Perfluorooctylsulfonic acid (PFAS) , Perfluorooctanoic acid (PFOA) .

Perfluoroalkyl acids (PFAAs) such as Perfluorobutyric acid , Perfluorononanoic acid and Perfluorooctylsulfonic acid are contaminants that have increasingly been found in groundwater and drinking water systems. Perfluoroalkyl acids (PFAAs) are also strong surfactants that have been used industrially, in the production of fluoropolymers, but they are also present as residual impurities in a wide range of polymeric consumer products e.g. used to impart water and stain repellency in textiles, papers, and boards. We were able to separate Perfluoroalkyl acids (PFAAs) in HPLC on Newcrom A mixed-mode column using a mobile phase of acetonitrile (ACN), and water with Ammonium Formate buffer. This separation can be monitored with ELSD, CAD detection techniques.

Method Parameters

Column	Newcrom A, 4.6 x 150 mm, 5 μm, 100 Å, dual ended
Mobile Phase	MeCN – 40%
Buffer	AmFm pH 3.0 – 50 mM
Flow Rate	1.0 mL/min
Detection	CAD

Quelle: <https://sielc.com/hplc-separation-of-perfluoroalkyl-acids>