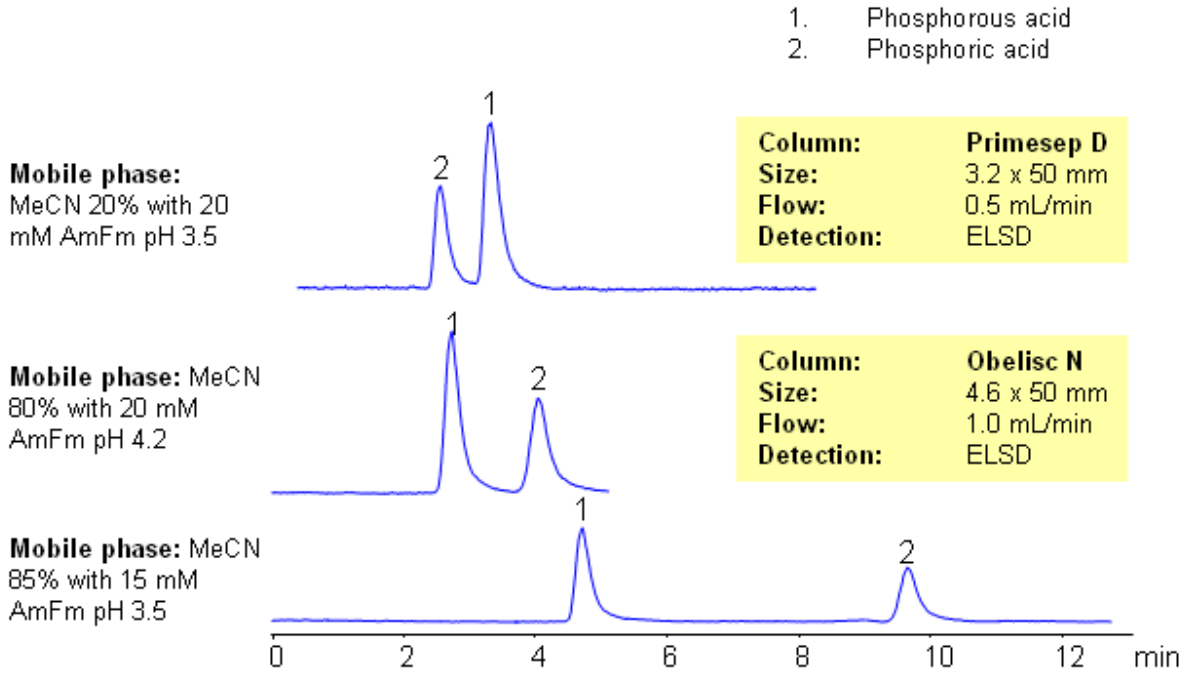
HPLC Separation of Phosphorous and Phosphoric Acids



Application Notes: Phosphorus and phosphoric acid were separated on Obelisc N and Primesep D columns. On Obelisc N both acids retained by combination of HILIC and anion-exchange mechanisms. OnPrimesep D these inogranic acids are retained by anion-exchange mechanism. Both columns and methods can be used for analysis of hydrophilic organic and inorganic acids with multi-mode or single mode approach Application Columns: Primesep D, Obelisc N Application compounds: Phosphorous Acid, Phosphoric Acid Detection technique: UV, LC/MS, ELSD/CAD

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

Method Parameters

Column	Obelisc N, 4.6×50 mm, 5 µm, 100 Å
Mobile Phase	MeCN
Buffer	AmFm
Flow Rate	1.0 mL/min
Detection	ELSD

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Quelle: https://sielc.com/HPLC%20Separation%20of%20Phosphorous%20and%20Phosphoric%20Acids

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