

Literature References | Bibliography for Cogent TYPE-C HPLC Publications - Tech Information

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Comprehensive Literature References for Cogent TYPE-C™ HPLC Columns: Research Applications, Advancements, and Published Studies

The compiled literature on Cogent TYPE-C™ silica-hydride HPLC columns illustrates their wide applicability across chromatographic modes, analyte classes, and research settings.

From fundamental mechanistic investigations to applied forensic and biochemical analyses, TYPE-C™ stationary phases provide unique selectivity and dual-mode capabilities that have been repeatedly validated in peer-reviewed scientific work.

This growing body of research underscores the value of silica-hydride chemistry as both a practical and innovative tool for modern analytical science.

Authors	Title	Publication	Date	Volume	Pages
Jerimiah J. Seba, Walter F. Rowe, Ira S. Lurie	The Use of Single or Serially Coupled Columns and the Effect of Organic Modifier for the Separation of Constitutional Isomers of the Synthetic Cannabinoid JWH 018	Journal of Separation Science	October 2025	Volume 48,	e70286
	Development of an HPLC-Light Scattering Method for the Quantification of Dicyclohexylamine in Beeswax			Issue 10	
Joseph J. Pesek, Maria T. Matyska, Tanya Hiltz, Jason Hall		Separation Science Plus	27 May 2025	Volume 8, Issue 6	e70081
Appia-Kusi, Volda and Lurie, Ira S.,	Utility of 'Flip-Flop' Chromatography Employing Silica Hydride Stationary Phases with Simultaneous Photodiode Array Ultraviolet and Single Quadrupole Mass	Journal of Chromatography	September 2023		1707

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Joseph J. Pesek, Validation of an Aqueous
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Carly Ploumen, Ioan Marginean, Ira S. Lurie	The utility of silica hydride-based stationary phases for dual-mode ultra high performance liquid chromatography separation of synthetic cathinone positional isomers	Journal of Separation Science	2020	43	1–9
	Mobile phase effects on the retention on polar columns with special				
P. Jandera, T. Hájek	attention to the dual hydrophilic interaction– reversed-phase liquid chromatography mechanism, a review Investigation of the temperature dependence	Journal of Separation Science	2018	41	145– 162
E. Bartó, A. Felinger, P. Jandera	of water adsorption on silica-based stationary phases in hydrophilic interaction liquid chromatography Silica Hydride-Based Packing Materials: HPLC	Journal of Chromatography A	2017	1489	143– 148
J.J. Pesek, M.T. Matyska	Stationary Phases for a Global Approach to Complex Sample Analysis Silica hydride based phases for small molecule separations using automated liquid chromatography–mass spectrometry method development	Current Chromatography	2017	4	1-10
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M.T. Matyska,	hydride-based stationary	Anal. Chim. Acta	2014	817	48-60
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