



Literature references for Cogent TYPE-C HPLC columns - Tech Information

The following is a list of Articles published in peer-reviewed Journals and books that discuss Cogent TYPE-C™ Silica based HPLC Columns and their Applications:

Authors	Title	Publication	Date	Volume	Pages
Jason G. Dumelie, Qiuying Chen, Dawson Miller, Nabeel Attarwala, Steven S. Gross & Samie R. Jaffrey	Biomolecular condensates create phospholipid-enriched microenvironments	Nature chemical biology	2023		
Joseph J. Pesek, Maria T. Matyska, Tanya Hiltz, Gary Takeoka	Validation of an Aqueous Normal Phase Chromatography Method for the Analysis of Ergothioneine in Commercial Mushrooms	LCGC North America	2023	41	341-344, 349
Joseph J. Pesek, Maria T. Matyska, Tanya Hiltz, Jennifer McCall	Application of a Cholesterol-Based Stationary Phase for the Analysis of Brevetoxins	Journal of Separation Science	2022	46	2200666
Bugajev Viktor, Halova Ivana, Demkova Livia, Cernohouzova Sara, Vavrova Petra, Mrkacek Michal, Utekal	ORMDL2 Deficiency Potentiates the ORMDL3-Dependent Changes in Mast Cell Signaling	Frontiers in Immunology	2021	11	591975



Pesek JJ, Matyska MT, Tardiff E, Hiltz T.	Chromatographic characterization of a silica hydride-based amide stationary phase.	Journal of Separation Science	2021	14	2728-2734
Pesek JJ, Matyska MT.	Silica Hydride: A Separation Material Every Analyst Should Know About.	Molecules	2021	26	7505
Marisa C. May, David C. Pavone, Dr. Ira S. Lurie	The separation and identification of synthetic cathinones by portable low micro-flow liquid chromatography with dual capillary columns in series and dual wavelength ultraviolet detection	Journal of Separation Science	2020	43	1-9
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
P. Jandera, T. Hájek	Mobile phase effects on the retention on polar columns with special attention to the dual hydrophilic interaction-reversed-phase liquid chromatography mechanism, a review	Journal of Separation Science	2018	41	145-162
E. Bartó, A. Felinger, P. Jandera	Investigation of the temperature dependence of water adsorption on silica-based stationary phases in hydrophilic interaction liquid chromatography	Journal of Chromatography A	2017	1489	143-148



J.J. Pesek, M.T. Matyska	Silica Hydride-Based Packing Materials: HPLC Stationary Phases for a Global Approach to Complex Sample Analysis	Current Chromatography	2017	4	1-10
D.K. Appulage, K.A. Schug	Silica hydride based phases for small molecule separations using automated liquid chromatography-mass spectrometry method development	Journal of Chromatography A	2017	1507	115-123
J.E. Young, Z. Pan, H. Ean, V. Menon, B. Modereger, J.J. Pesek, M.T. Matyska, G. Takeoka	Phenolic Composition of Pomegranate Peel Extracts using an LC-MS Approach with Silica Hydride Columns	J. Sep. Sci.	2017	40	1449-1456
J.E. Young, J.J. Pesek, M.T. Matyska, B. Sanchez, B. White	Quantitative Analysis of Uric Acid Metabolites in Urine by High Performance Liquid Chromatography - Mass Spectrometry using Silica Hydride Columns	Current Chromatography	2017	4	51-57
R. Naffa, G. Holmes, M. Ahn, D. Harding, G. Norris	Liquid chromatography-electrospray ionization mass spectrometry for the simultaneous quantitation of collagen and elastin crosslinks	Journal of Chromatography A	2016	1478	60-67



J.E. Young, T. Nguyen, C. Ly, S. Jarman, D. Diep, C. Pham, J.J. Pesek, M.T. Matyska, G.R. Takeoka	LC-MS Characterization of Mesquite Flour Constituents	LC-GC North America Special Issues	2016 10	28-31
J.C. Evans, C. Trujillo, Z. Wang, H. Eoh, S. Ehrt, D. Schnappinger, H.I.M. Boshoff, K.Y. Rhee, C.E. Barry III, V. Mizrahi	Validation of CoaBC as a bactericidal target in the coenzyme A pathway of <i>Mycobacterium tuberculosis</i>	ACS Infectious Diseases	2016 2	958-968
H. Grajek, Z. Witkiewicz, M. Purchała, W. Drzewiński	Liquid Crystals as Stationary Phases in Chromatography	Chromatographia	2016	1-29
Y. Kannan ¹ , J. Perez-Lloret, Y. Li ¹ , L.J. Entwistle, H. Khoury, S. Papoutsopoulou, R. Mahmood, N.R. Mansour, S.C. Huang, E.J. Pearce, L.P.S. de Carvalho, S.C. Ley, M.S. Wilson	TPL-2 Regulates Macrophage Lipid Metabolism and M2 Differentiation to Control TH2-Mediated Immunopathology	PLOS Pathogens	2016 12(8)	1-26



E. Cífková, R. Hájek, M. Lísa, M. Holčapek	HILIC/ESI-MS Separation of acidic and other lipid classes using hydride column	HPLC 2016 poster	2016	N/A	N/A
C. Kulsing, Y. Yang, R. Sepehrifar, M. Lim, J. Toppete, M.T. Matyska, J.J. Pesek, R.I. Boysen, M.T.W. Hearn	Investigations into the separation behaviour of perfluorinated C8 and Undecanoic acid modified silica hydride stationary phases	Analytica Chimica Acta	2016	916	102-111
J.E. Young	Advances in chromatographic analysis of foods and beverages: modern stationary phases for challenging compounds	Agro Food Industry Hi Tech 2016	27		14-17
J.J. Pesek, M.T. Matyska, M. Sieng, L. Doan	Analysis of Capsaicinoids in Hot Sauces Using a Silica Hydride-Based Stationary Phase	Current Chromatography	2016	3	12-16



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Robust HPLC-Refractive Index Analysis of
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J.J. Pesek, M.T. Matyska, B.
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The separation and analysis of
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J.E. Young, M.V. Lim, J. Topete,
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J. Pesek, M. Matyska, A. Jimena, Analysis of glucosamine using **aqueous normal phase chromatography** Food Sci. Technol. 2016 65 777-782

J.J. Kamphorst, M. Nofal, C. Commissio, S.R. Hackett, W. Lu, E. Grabocka, M.G. Vander Heiden, G. Miller, J.A. Drebin, D. Bar-Sagi, C.B. Thompson, J.D. Rabinowitz Human Pancreatic Cancer Tumors Are Nutrient Poor and Tumor Cells Actively Scavenge Extracellular Protein Cancer Research 2015 75 544-553

Y. Dai, S.M. Fischer Metabolomics Batch Data Analysis Workflow to Characterize Differential Metabolites in Bacteria Agilent Application Note 2015 N/A 1-8

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J. Pesek, M. Matyska	Ammonium fluoride as a mobile phase additive in aqueous normal phase chromatography	J. Chromatogr. A.	2015	1401	69-74
J.E. Young, M.T. Matyska, J.J. Pesek	LC-MS-Compatible Approaches for the Quantitation of Limonin in Citrus Juice	LCGC N. Am.	2015	33	192-199
S. Rocchi, A. Rocco, J.J. Pesek, M.T. Matyska, D. Capitani, S. Fanali	Enantiomers separation by nano-liquid chromatography: Use of a novel sub-2 μm vancomycin silica hydride stationary phase	J. Chromatogr. A.	2015	1381	149-159
C. Kulsing, Y. Nolvachai, P.J. Marriott, R.I. Boysen, M.T. Matyska,	Insights into the Origin of the Separation Selectivity with Silica Hydride Adsorbents	J. Phys. Chem. B.	2015	119	3063-3069
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C. Kulsing, Y. Yang, R.I. Boysen, M.T. Matyska, J.J. Pesek, M.T.W. Hearn	Role of electrostatic contributions in the separation of peptides with silica hydride Analytical Methods stationary phases	2015	7	1578-1585	
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S. Bocian, G. Rychlicki, M.T. Matyska, J.J. Pesek, B. Buszewski	Study of hydration process on silica hydride surfaces by micro-calorimetry and water adsorption	J. Colloid Interface Sci.	2014	416	161-166



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Y. Yang, R.I. Boysen, C. Kulsing, M.T. Matyska, J.J. Pesek, M.T. W. Hearn	Analysis of polar peptides using a silica hydride column and high aqueous content mobile phases	J. Sep. Sci.	2013	36	3019-3025
J.J. Pesek, MT. Matyska, A.M. Kim	Evaluation of stationary phases based on silica hydride for the analysis of drugs of abuse	J. Sep. Sci.	2013	36	2760-2766
R. Le, J.E. Young, J.J. Pesek, M.T. Matyska	Separation of 1,3-dimethylamylamine and other polar compounds in a dietary supplement formulation using aqueous normal phase chromatography with MS	J. Sep. Sci.	2013	36	2578-2583



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A. Dang, J.J. Pesek, M.T. Matyska	The use of aqueous normal phase chromatography as an analytical tool for food analysis: Determination of histamine as a model system	Food Chem.	2013	141	4226-4230
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J. E. Young, M.T. Matyska, A.K. Azad, S.E. Yoc, J.J. Pesek	Separation Differences Among Phenyl Hydride, Undecanoyl Cholesterol, and Bidentate C8 Stationary Phases for Stability Indicating Methods of Tetracyclines	J. Liq. Chromatogr. & Rel Technol.	2013	36	926-942



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J.J. Pesek, M.T. Matyska	A New Approach to Bioanalysis: Aqueous Normal Phase Chromatography with Silica Hydride Stationary Phases	Bioanalysis	2012	4	845-853
J.J. Pesek, M.T. Matyska, A. Dang	Analysis of cycloserine and related compounds using Aqueous Normal Phase chromatography/Mass Spectrometry	J. Pharm. Biomed. Anal.	2012	64	72-76
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