

# SeQuant<sup>®</sup> ZIC<sup>®</sup>-pHILIC

Polymeric columns with extended pH stability for demanding separations of hydrophilic compounds

## Ordering information – SeQuant<sup>®</sup> ZIC<sup>®</sup>-pHILIC analytical PEEK columns

Product	Ordering No.	Particle size	Beads	Dimension length	Dimension i.d.	Contents of one package
ZIC <sup>®</sup> -pHILIC PEEK HPLC column	1.50459.0001	5 µm	polymeric	50 mm	2.1 mm	1 piece
ZIC <sup>®</sup> -pHILIC PEEK HPLC column	1.50462.0001	5 µm	polymeric	100 mm	2.1 mm	1 piece
ZIC <sup>®</sup> -pHILIC PEEK HPLC column	1.50460.0001	5 µm	polymeric	150 mm	2.1 mm	1 piece
ZIC <sup>®</sup> -pHILIC PEEK HPLC column	1.50463.0001	5 µm	polymeric	50 mm	4.6 mm	1 piece
ZIC <sup>®</sup> -pHILIC PEEK HPLC column	1.50464.0001	5 µm	polymeric	100 mm	4.6 mm	1 piece
ZIC <sup>®</sup> -pHILIC PEEK HPLC column	1.50461.0001	5 µm	polymeric	150 mm	4.6 mm	1 piece
ZIC <sup>®</sup> -pHILIC Guard column (1-pak)	1.50437.0001	5 µm	polymeric	20 mm	2.1 mm	1 piece
ZIC <sup>®</sup> -pHILIC Guard column incl. column coupler (3-pak)	1.50438.0001	5 µm	polymeric	20 mm	2.1 mm	3 pieces

For more information please visit [www.merckmillipore.com/zicphilic](http://www.merckmillipore.com/zicphilic)

## Separation example on ZIC<sup>®</sup>-pHILIC

### LC-MS of dithiocarbamates

<b>Column</b>	ZIC <sup>®</sup> -pHILIC 150 x 4.6 mm, 5 µm, 100 Å [Ord. No. 1.50461.0001]		
<b>Mobile phase</b>	A: acetonitrile B: 10 mM ammonia		
<b>Gradient</b>	Time [min]	% A	% B
	0.0-5.0	90	10
	5.0-13.0	60	40
	13.0-16.0	40	60
<b>Flow rate</b>	0.7 mL/min		
<b>Detection</b>	Electrospray-MS in negative mode. Single ion monitoring (SIM) at m/z 120, 126, 211, 215 and 191		
<b>Temperature</b>	ambient		
<b>Injection volume</b>	5 µL		
<b>Diluent</b>	10 mM each of NaHCO <sub>3</sub> and DL-Penicillamine pH 12 with NaOH		
<b>Sample</b>	DMD, d6-DMD, EBD, d4-EBD and PBD (20 mg/L for UV and 0.4 mg/L for MS)		
	Void volume (t <sub>0</sub> )	2.0 min	–
	1. DMD (Ziram)	2.2 min	0.1
	2. PBD (Propineb)	12.4 min	5.2
	3. EBD (Zineb)	12.8 min	5.4

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