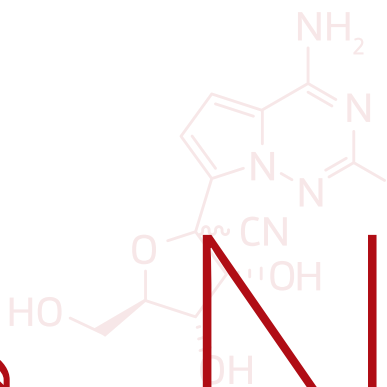
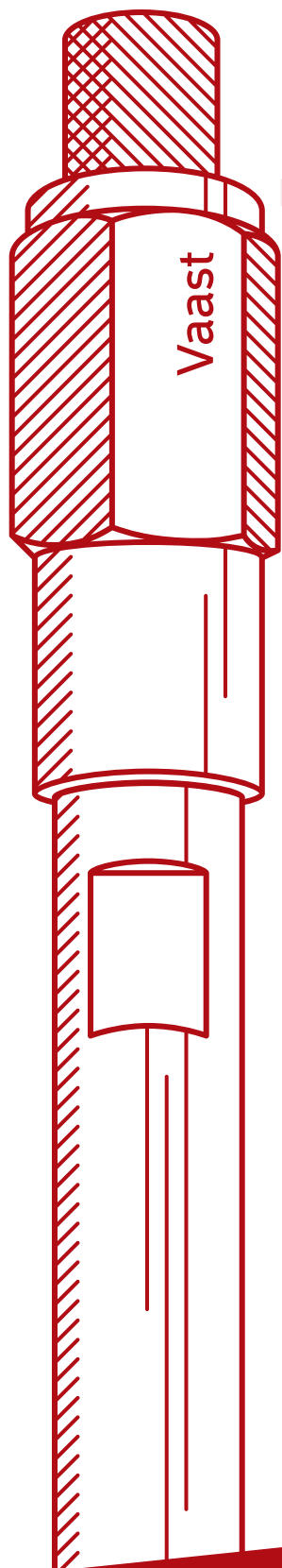




2 0 2 5 P R I C E L I S T



NEW PRODUCTS

Vaast AMINO ACID COLUMN AND KITS

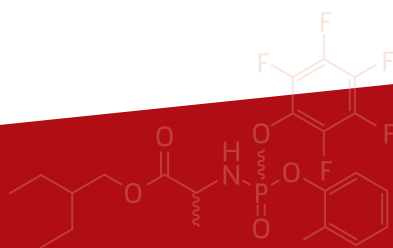
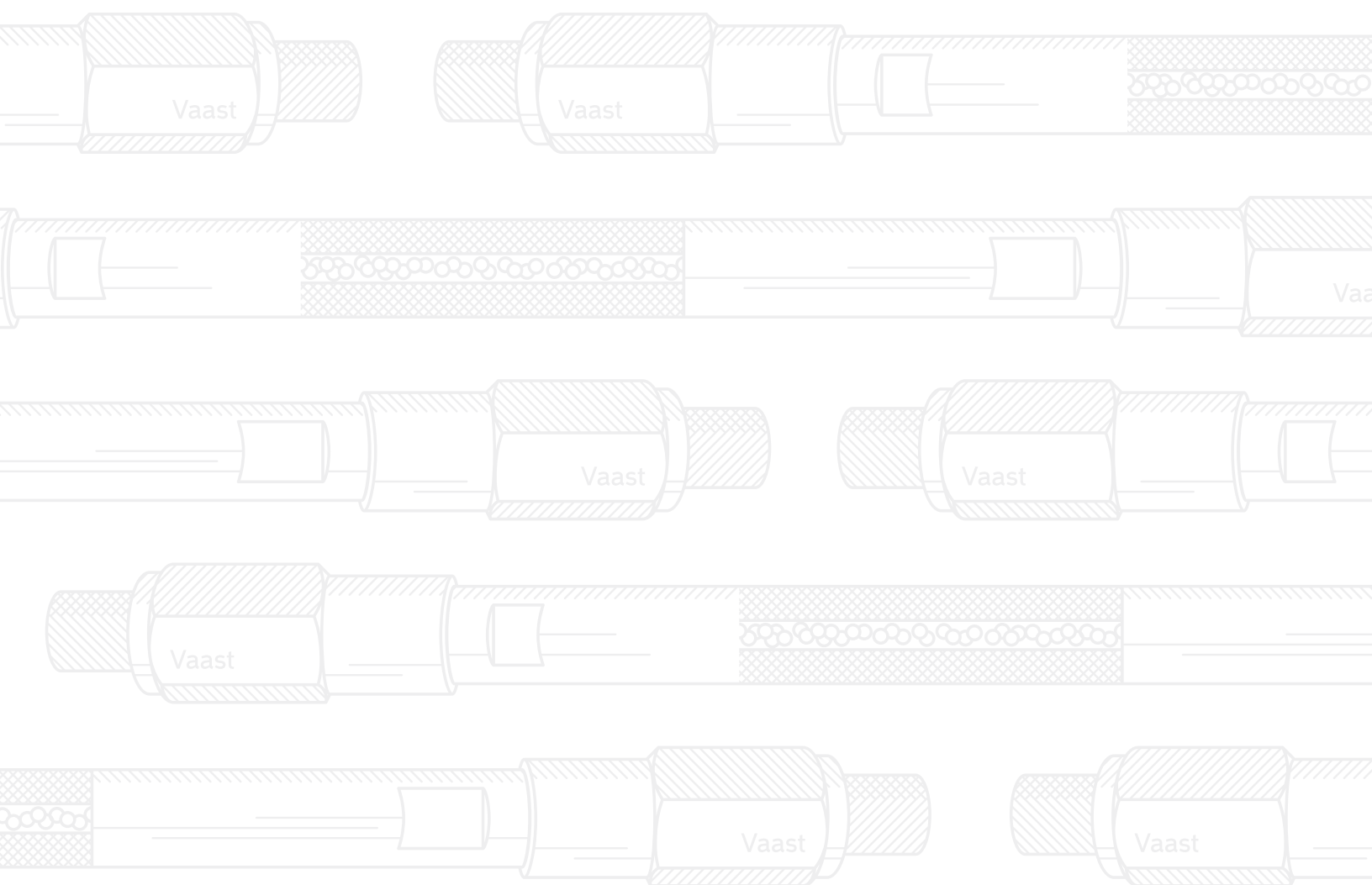
Column and Kits

Page 3

NEW PRODUCTS

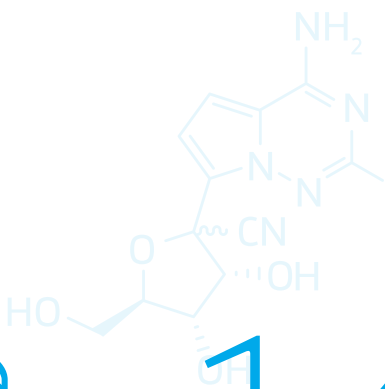
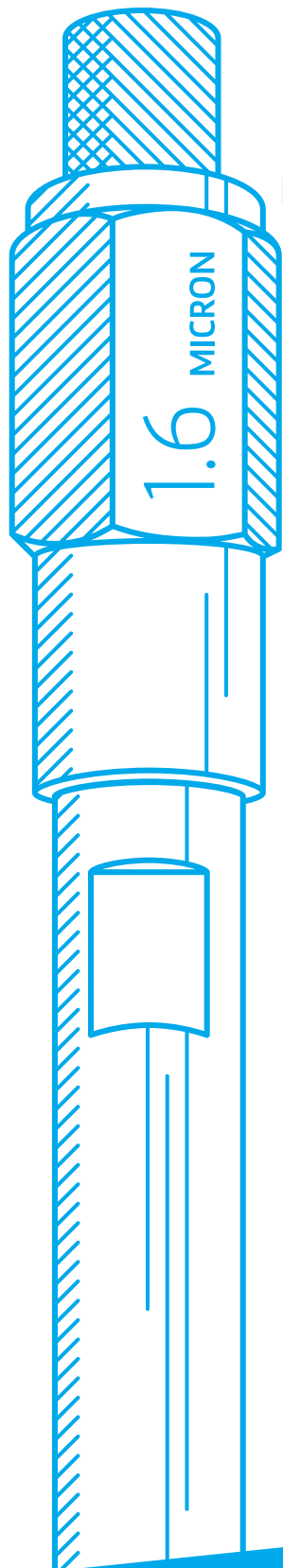
Vaast AMINO ACID COLUMN AND KITS

PRODUCT NAME		
Vaast, REAGENT KIT (LIQUID): AMINE DERIVATIZATION (250 RXNS)	72K01	\$750
Vaast, REAGENT KIT (POWDER): AMINE DERIVATIZATION (250 RXNS)	72K02	\$700
Vaast, COLUMN KIT (LIQUID REAGENTS)	72KC1	\$3,050
Vaast, COLUMN KIT (POWDER REAGENTS)	72KC2	\$3,000
Vaast, 2.1 x 100 mm, 1.7 μ m	72U93	\$2,300



Please call us for your custom column needs.

1-800-6CHIRAL



1.6 MICRON

IMMOBILIZED ANALYTICAL COLUMNS

1.6 μ m 3.0 mm I.D.

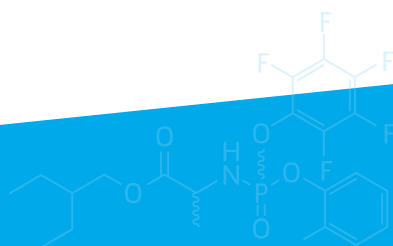
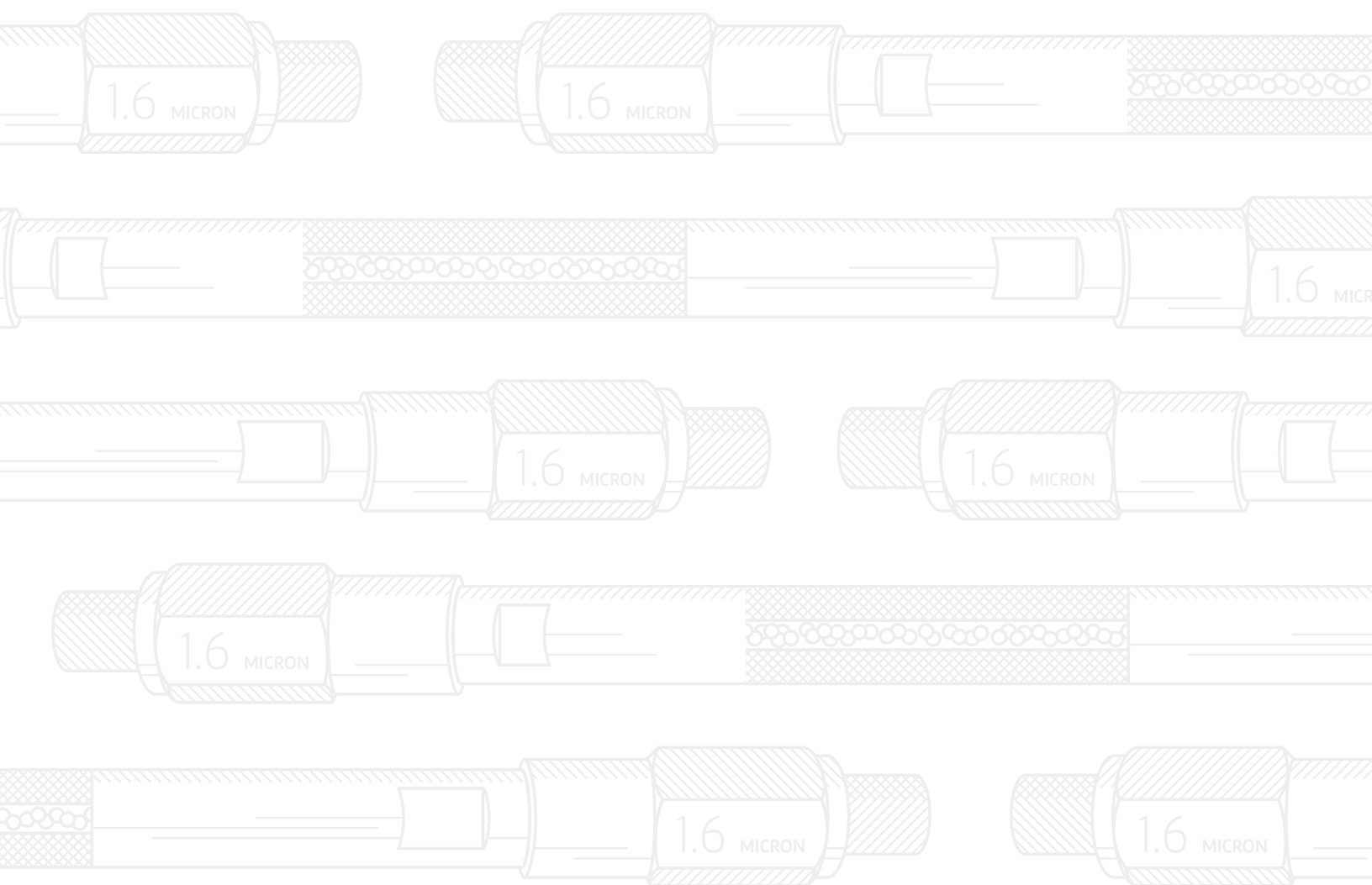
Page 5

1.6 MICRON

IMMOBILIZED ANALYTICAL COLUMNS - 1.6 μ m 3.0 mm I.D.

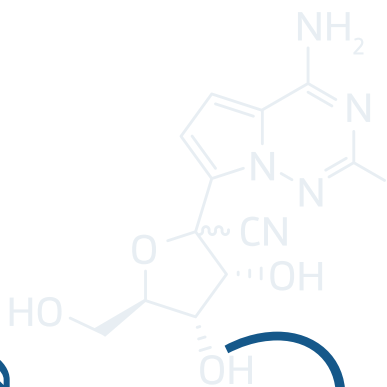
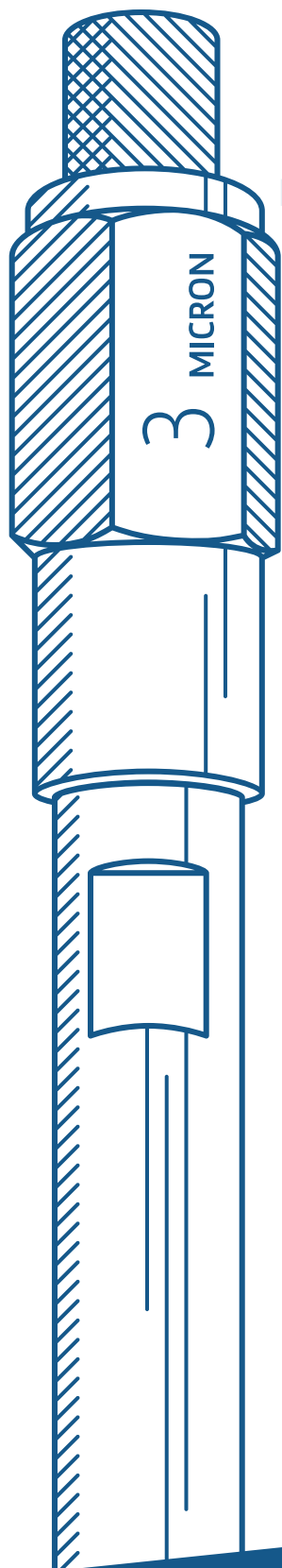
COMPATIBLE WITH HPLC AND UHPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)			
	50		100	
CHIRALPAK IA-U	80U82	\$1,510	80U83	\$2,060
CHIRALPAK IB-U	81U82	\$1,510	81U83	\$2,060
CHIRALPAK IC-U	83U82	\$1,510	83U83	\$2,060
CHIRALPAK ID-U	84U82	\$1,510	84U83	\$2,060
CHIRALPAK IG-U	87U82	\$1,510	87U83	\$2,060
CHIRALPAK IH-U	89U82	\$1,510	89U83	\$2,060



Please call us for your custom column needs.

1-800-6CHIRAL



3 MICRON

IMMOBILIZED ANALYTICAL COLUMNS

3 μm 2.1 mm I.D. Page 7

3 μm 4.6 mm I.D. Page 8

COATED ANALYTICAL COLUMNS

3 μm 2.1 mm I.D. Page 7

3 μm 4.6 mm I.D. Page 8

IMMOBILIZED AND COATED ANALYTICAL COLUMNS (OPTIMIZED FOR SFC)

3 μm 3.0 mm I.D. Page 9

3 MICRON

IMMOBILIZED ANALYTICAL COLUMNS - 3 μ m 2.1 mm I.D.

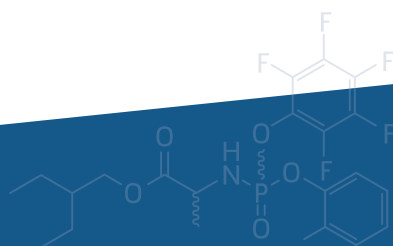
COMPATIBLE WITH HPLC AND UHPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)							
	50		100		150		250	
CHIRALPAK IA-3	80592	\$1,070	80593	\$1,660	80594	\$2,210	80595	\$2,350
CHIRALPAK IB N-3	88592	\$1,070	88593	\$1,660	88594	\$2,210	88595	\$2,350
CHIRALPAK IB-3	81592	\$1,070	81593	\$1,660	81594	\$2,210	81595	\$2,350
CHIRALPAK IC-3	83592	\$1,070	83593	\$1,660	83594	\$2,210	83595	\$2,350
CHIRALPAK ID-3	84592	\$1,070	84593	\$1,660	84594	\$2,210	84595	\$2,350
CHIRALPAK IE-3	85592	\$1,070	85593	\$1,660	85594	\$2,210	85595	\$2,350
CHIRALPAK IF-3	86592	\$1,070	86593	\$1,660	86594	\$2,210	86595	\$2,350
CHIRALPAK IG-3	87592	\$1,070	87593	\$1,660	87594	\$2,210	87595	\$2,350
CHIRALPAK IH-3	89592	\$1,070	89593	\$1,660	89594	\$2,210	89595	\$2,350
CHIRALPAK IJ-3	90592	\$1,070	90593	\$1,660	90594	\$2,210	90595	\$2,350
CHIRALPAK IK-3	91592	\$1,070	91593	\$1,660	91594	\$2,210	91595	\$2,350
CHIRALPAK IM-3	92592	\$1,070	92593	\$1,660	92594	\$2,210	92595	\$2,350
CHIRALPAK IN-3	93592	\$1,070	93593	\$1,660	93594	\$2,210	93595	\$2,350

COATED ANALYTICAL COLUMNS - 3 μ m 2.1 mm I.D.

COMPATIBLE WITH HPLC AND UHPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)							
	50		100		150		250	
NORMAL PHASE AND SFC								
CHIRALCEL OD-3	14592	\$790	14593	\$1,220	14594	\$1,610	14595	\$1,710
CHIRALCEL OJ-3	17592	\$1,030	17593	\$1,610	17594	\$2,140	17595	\$2,280
CHIRALPAK AD-3	19592	\$790	19593	\$1,220	19594	\$1,610	19595	\$1,710
CHIRALPAK AS-3	20592	\$1,030	20593	\$1,610	20594	\$2,140	20595	\$2,280
CHIRALCEL OZ-3	42592	\$1,030	42593	\$1,610	42594	\$2,140	42595	\$2,280
CHIRALPAK AY-3	47592	\$1,030	47593	\$1,610	47594	\$2,140	47595	\$2,280
CHIRALPAK AZ-3	61592	\$1,030	61593	\$1,610	61594	\$2,140	61595	\$2,280
CHIRALCEL OX-3	63592	\$1,030	63593	\$1,610	63594	\$2,140	63595	\$2,280
REVERSED-PHASE ONLY								
CHIRALCEL OD-3R	14892	\$790	14893	\$1,220	14894	\$1,610	14895	\$1,710
CHIRALCEL OJ-3R	17892	\$1,030	17893	\$1,610	17894	\$2,140	17895	\$2,280
CHIRALPAK AD-3R	19892	\$790	19893	\$1,220	19894	\$1,610	19895	\$1,710
CHIRALPAK AS-3R	20892	\$1,030	20893	\$1,610	20894	\$2,140	20895	\$2,280
CHIRALCEL OZ-3R	42892	\$1,030	42893	\$1,610	42894	\$2,140	42895	\$2,280
CHIRALPAK AY-3R	47892	\$1,030	47893	\$1,610	47894	\$2,140	47895	\$2,280
CHIRALPAK AZ-3R	61892	\$1,030	61893	\$1,610	61894	\$2,140	61895	\$2,280
CHIRALCEL OX-3R	63892	\$1,030	63893	\$1,610	63894	\$2,140	63895	\$2,280



Please call us for your custom column needs.

1-800-6CHIRAL

3 MICRON

IMMOBILIZED ANALYTICAL COLUMNS - 3 μ m 4.6 mm I.D.

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

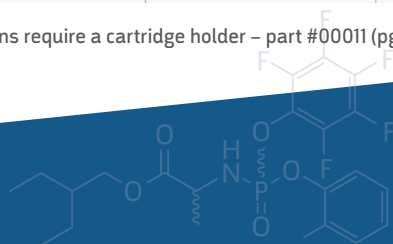
PRODUCT NAME	LENGTH (mm)								GUARD CARTRIDGES (3)	
	50		100		150		250		4.0 x 10*	
CHIRALPAK IA-3	80522	\$1,070	80523	\$1,660	80524	\$2,210	80525	\$2,350	80511	\$425
CHIRALPAK IB N-3	88522	\$1,070	88523	\$1,660	88524	\$2,210	88525	\$2,350	88511	\$425
CHIRALPAK IB-3	81522	\$1,070	81523	\$1,660	81524	\$2,210	81525	\$2,350	81511	\$425
CHIRALPAK IC-3	83522	\$1,070	83523	\$1,660	83524	\$2,210	83525	\$2,350	83511	\$425
CHIRALPAK ID-3	84522	\$1,070	84523	\$1,660	84524	\$2,210	84525	\$2,350	84511	\$425
CHIRALPAK IE-3	85522	\$1,070	85523	\$1,660	85524	\$2,210	85525	\$2,350	85511	\$425
CHIRALPAK IF-3	86522	\$1,070	86523	\$1,660	86524	\$2,210	86525	\$2,350	86511	\$425
CHIRALPAK IG-3	87522	\$1,070	87523	\$1,660	87524	\$2,210	87525	\$2,350	87511	\$425
CHIRALPAK IH-3	89522	\$1,070	89523	\$1,660	89524	\$2,210	89525	\$2,350	89511	\$425
CHIRALPAK IJ-3	90522	\$1,070	90523	\$1,660	90524	\$2,210	90525	\$2,350	90511	\$425
CHIRALPAK IK-3	91522	\$1,070	91523	\$1,660	91524	\$2,210	91525	\$2,350	91511	\$425
CHIRALPAK IM-3	92522	\$1,070	92523	\$1,660	92524	\$2,210	92525	\$2,350	92511	\$425
CHIRALPAK IN-3	93522	\$1,070	93523	\$1,660	93524	\$2,210	93525	\$2,350	93511	\$425

COATED ANALYTICAL COLUMNS - 3 μ m 4.6 mm I.D.

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)								GUARD CARTRIDGES (3)	
	50		100		150		250		4.0 x 10*	
NORMAL PHASE AND SFC										
CHIRALCEL OD-3	14522	\$790	14523	\$1,220	14524	\$1,610	14525	\$1,710	14511	\$320
CHIRALCEL OJ-3	17522	\$1,030	17523	\$1,610	17524	\$2,140	17525	\$2,280	17511	\$415
CHIRALPAK AD-3	19522	\$790	19523	\$1,220	19524	\$1,610	19525	\$1,710	19511	\$320
CHIRALPAK AS-3	20522	\$1,030	20523	\$1,610	20524	\$2,140	20525	\$2,280	20511	\$415
CHIRALCEL OZ-3	42522	\$1,030	42523	\$1,610	42524	\$2,140	42525	\$2,280	42511	\$415
CHIRALPAK AY-3	47522	\$1,030	47523	\$1,610	47524	\$2,140	47525	\$2,280	47511	\$415
CHIRALPAK AZ-3	61522	\$1,030	61523	\$1,610	61524	\$2,140	61525	\$2,280	61511	\$415
CHIRALCEL OX-3	63522	\$1,030	63523	\$1,610	63524	\$2,140	63525	\$2,280	63511	\$415
REVERSED-PHASE ONLY										
CHIRALCEL OD-3R	14822	\$790	14823	\$1,220	14824	\$1,610	14825	\$1,710	14811	\$320
CHIRALCEL OJ-3R	17822	\$1,030	17823	\$1,610	17824	\$2,140	17825	\$2,280	17811	\$415
CHIRALPAK AD-3R	19822	\$790	19823	\$1,220	19824	\$1,610	19825	\$1,710	19811	\$320
CHIRALPAK AS-3R	20822	\$1,030	20823	\$1,610	20824	\$2,140	20825	\$2,280	20811	\$415
CHIRALCEL OZ-3R	42822	\$1,030	42823	\$1,610	42824	\$2,140	42825	\$2,280	42811	\$415
CHIRALPAK AY-3R	47822	\$1,030	47823	\$1,610	47824	\$2,140	47825	\$2,280	47811	\$415
CHIRALPAK AZ-3R	61822	\$1,030	61823	\$1,610	61824	\$2,140	61825	\$2,280	61811	\$415
CHIRALCEL OX-3R	63822	\$1,030	63823	\$1,610	63824	\$2,140	63825	\$2,280	63811	\$415

* All Guard Cartridges for analytical columns require a cartridge holder – part #00011 (pg. 31).



Please call us for your custom column needs.

1-800-6CHIRAL

3 MICRON OPTIMIZED FOR SFC

IMMOBILIZED ANALYTICAL COLUMNS - 3 µm 3.0 mm I.D.

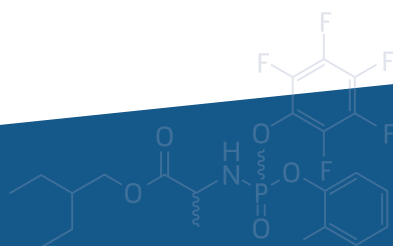
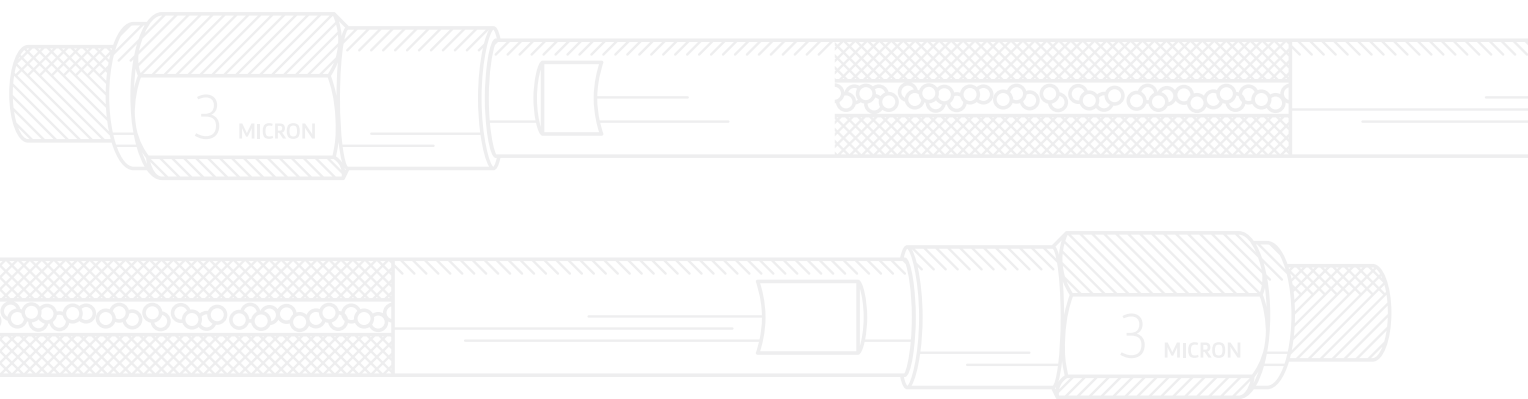
OPTIMIZED FOR SFC AND COMPATIBLE WITH UHPLC (NORMAL PHASE AND REVERSED-PHASE)

PRODUCT NAME	LENGTH (mm)					
	50		100		150	
CHIRALPAK IA-3/SFC	80S82	\$1,070	80S83	\$1,660	80S84	\$2,210
CHIRALPAK IB N-3/SFC	88S82	\$1,070	88S83	\$1,660	88S84	\$2,210
CHIRALPAK IB-3/SFC	81S82	\$1,070	81S83	\$1,660	81S84	\$2,210
CHIRALPAK IC-3/SFC	83S82	\$1,070	83S83	\$1,660	83S84	\$2,210
CHIRALPAK ID-3/SFC	84S82	\$1,070	84S83	\$1,660	84S84	\$2,210
CHIRALPAK IE-3/SFC	85S82	\$1,070	85S83	\$1,660	85S84	\$2,210
CHIRALPAK IF-3/SFC	86S82	\$1,070	86S83	\$1,660	86S84	\$2,210
CHIRALPAK IG-3/SFC	87S82	\$1,070	87S83	\$1,660	87S84	\$2,210
CHIRALPAK IH-3/SFC	89S82	\$1,070	89S83	\$1,660	89S84	\$2,210
CHIRALPAK IJ-3/SFC	90S82	\$1,070	90S83	\$1,660	90S84	\$2,210
CHIRALPAK IK-3/SFC	91S82	\$1,070	91S83	\$1,660	91S84	\$2,210
CHIRALPAK IM-3/SFC	92S82	\$1,070	92S83	\$1,660	92S84	\$2,210
CHIRALPAK IN-3/SFC	93S82	\$1,070	93S83	\$1,660	93S84	\$2,210

COATED ANALYTICAL COLUMNS - 3 µm 3.0 mm I.D.

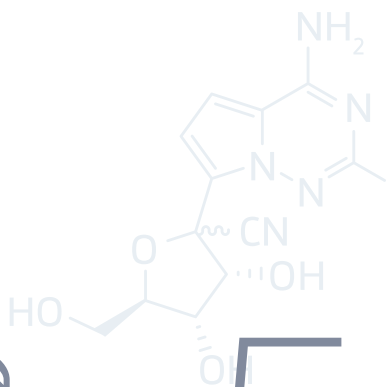
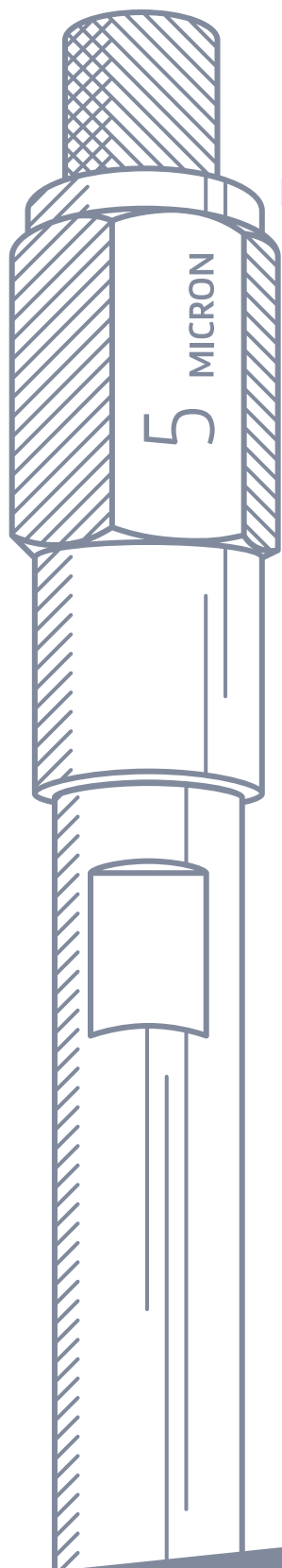
OPTIMIZED FOR SFC AND COMPATIBLE WITH UHPLC (NORMAL PHASE AND REVERSED-PHASE)

PRODUCT NAME	LENGTH (mm)					
	50		100		150	
CHIRALCEL OD-3/SFC	14S82	\$790	14S83	\$1,220	14S84	\$1,610
CHIRALCEL OJ-3/SFC	17S82	\$1,030	17S83	\$1,610	17S84	\$2,140
CHIRALPAK AD-3/SFC	19S82	\$790	19S83	\$1,220	19S84	\$1,610
CHIRALPAK AS-3/SFC	20S82	\$1,030	20S83	\$1,610	20S84	\$2,140
CHIRALCEL OZ-3/SFC	42S82	\$1,030	42S83	\$1,610	42S84	\$2,140
CHIRALPAK AY-3/SFC	47S82	\$1,030	47S83	\$1,610	47S84	\$2,140
CHIRALPAK AZ-3/SFC	61S82	\$1,030	61S83	\$1,610	61S84	\$2,140
CHIRALCEL OX-3/SFC	63S82	\$1,030	63S83	\$1,610	63S84	\$2,140



Please call us for your custom column needs.

1-800-6CHIRAL



5 MICRON

IMMOBILIZED AND COATED ANALYTICAL COLUMNS

5 μ m 2.1 mm I.D. Page 11

5 μ m 4.6 mm I.D. Page 12

IMMOBILIZED SEMI-PREP AND PREP COLUMNS

5 μ m Page 13

COATED SEMI-PREP AND PREP COLUMNS

5 μ m Page 14

5 MICRON

IMMOBILIZED ANALYTICAL COLUMNS - 5 μ m 2.1 mm I.D.

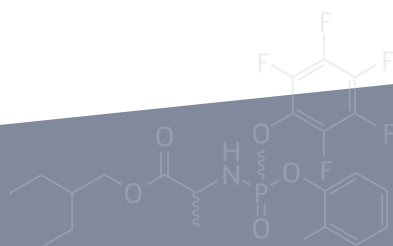
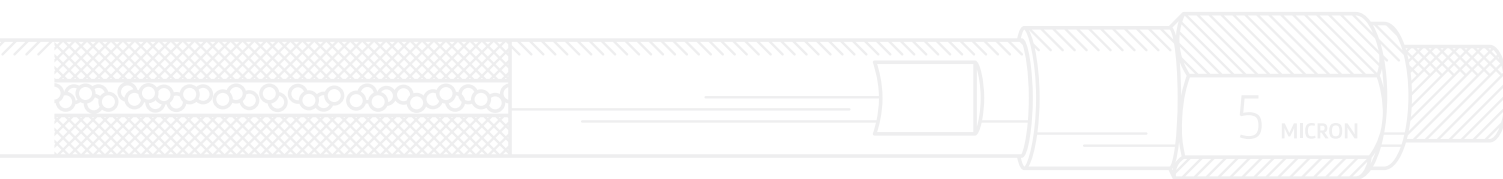
COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)	
	150	
CHIRALPAK IA	80394	\$1,690
CHIRALPAK IB N-5	88394	\$1,690
CHIRALPAK IB	81394	\$1,690
CHIRALPAK IC	83394	\$1,690
CHIRALPAK ID	84394	\$1,690
CHIRALPAK IE	85394	\$1,690
CHIRALPAK IF	86394	\$1,690
CHIRALPAK IG	87394	\$1,690
CHIRALPAK IH	89394	\$1,690
CHIRALPAK IJ	90394	\$1,690
CHIRALPAK IK	91394	\$1,690
CHIRALPAK IM	92394	\$1,690
CHIRALPAK IN	93394	\$1,690

COATED ANALYTICAL COLUMNS - 5 μ m 2.1 mm I.D.

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)	
	150	
NORMAL PHASE AND SFC		
CHIRALCEL OD-H	14394	\$1,240
CHIRALCEL OJ-H	17394	\$1,640
CHIRALPAK AD-H	19394	\$1,240
CHIRALPAK AS-H	20394	\$1,640
CHIRALCEL OZ-H	42394	\$1,640
CHIRALPAK AY-H	47394	\$1,640
CHIRALPAK AZ-H	61394	\$1,640
CHIRALCEL OX-H	63394	\$1,640
REVERSED-PHASE ONLY		
CHIRALCEL OD-RH	14794	\$1,240
CHIRALCEL OJ-RH	17794	\$1,640
CHIRALPAK AD-RH	19794	\$1,240
CHIRALPAK AS-RH	20794	\$1,640
CHIRALCEL OZ-RH	42794	\$1,640
CHIRALPAK AY-RH	47794	\$1,640
CHIRALPAK AZ-RH	61794	\$1,640
CHIRALCEL OX-RH	63794	\$1,640



Please call us for your custom column needs.

1-800-6CHIRAL

5 MICRON

IMMOBILIZED ANALYTICAL COLUMNS - 5 µm 4.6 mm I.D.

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)								GUARD CARTRIDGES (3)	
	50		100		150		250		4.0 x 10*	
CHIRALPAK IA	80422	\$1,130	80423	\$1,250	80324	\$1,870	80325	\$2,050	80311	\$360
CHIRALPAK IB N-5	88422	\$1,130	88423	\$1,250	88324	\$1,870	88325	\$2,050	88311	\$360
CHIRALPAK IB	81422	\$1,130	81423	\$1,250	81324	\$1,870	81325	\$2,050	81311	\$360
CHIRALPAK IC	83422	\$1,130	83423	\$1,250	83324	\$1,870	83325	\$2,050	83311	\$360
CHIRALPAK ID	84422	\$1,130	84423	\$1,250	84324	\$1,870	84325	\$2,050	84311	\$360
CHIRALPAK IE	85422	\$1,130	85423	\$1,250	85324	\$1,870	85325	\$2,050	85311	\$360
CHIRALPAK IF	86422	\$1,130	86423	\$1,250	86324	\$1,870	86325	\$2,050	86311	\$360
CHIRALPAK IG	87422	\$1,130	87423	\$1,250	87324	\$1,870	87325	\$2,050	87311	\$360
CHIRALPAK IH	89422	\$1,130	89423	\$1,250	89324	\$1,870	89325	\$2,050	89311	\$360
CHIRALPAK IJ	90422	\$1,130	90423	\$1,250	90324	\$1,870	90325	\$2,050	90311	\$360
CHIRALPAK IK	91422	\$1,130	91423	\$1,250	91324	\$1,870	91325	\$2,050	91311	\$360
CHIRALPAK IM	92422	\$1,130	92423	\$1,250	92324	\$1,870	92325	\$2,050	92311	\$360
CHIRALPAK IN	93422	\$1,130	93423	\$1,250	93324	\$1,870	93325	\$2,050	93311	\$360

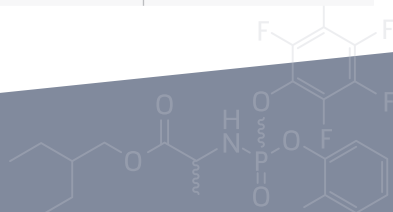
COATED ANALYTICAL COLUMNS - 5 µm 4.6 mm I.D.

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	LENGTH (mm)								GUARD CARTRIDGES (3)	
	50		100		150		250		4.0 x 10*	
NORMAL PHASE AND/OR SFC										
CHIRALCEL OD-H	14422	\$790	14423	\$870	14324	\$1,300	14325	\$1,440	14311	\$270
CHIRALCEL OJ-H	17422	\$1,030	17423	\$1,150	17324	\$1,730	17325	\$1,900	17311	\$350
CHIRALPAK AD-H	19422	\$790	19423	\$870	19324	\$1,300	19325	\$1,440	19311	\$270
CHIRALPAK AS-H	20422	\$1,030	20423	\$1,150	20324	\$1,730	20325	\$1,900	20311	\$350
CHIRALCEL OZ-H	42422	\$1,030	42423	\$1,150	42324	\$1,730	42325	\$1,900	42311	\$350
CHIRALPAK AY-H	47422	\$1,030	47423	\$1,150	47324	\$1,730	47325	\$1,900	47311	\$350
CHIRALPAK AZ-H	61422	\$1,030	61423	\$1,150	61324	\$1,730	61325	\$1,900	61311	\$350
CHIRALCEL OX-H	63422	\$1,030	63423	\$1,150	63324	\$1,730	63325	\$1,900	63311	\$350
NORMAL PHASE ONLY										
CHIRALCEL OB-H	-	-	-	-	12324	\$1,730	12325	\$1,900	12311	\$350
CHIRALCEL OC-H	-	-	-	-	-	-	13325	\$1,900	13311	\$350

PRODUCT NAME	LENGTH (mm)		GUARD CARTRIDGES (3)	
	150		4.0 x 10*	
REVERSED-PHASE ONLY				
CHIRALCEL OD-RH	14724	\$1,300	14711	\$270
CHIRALCEL OJ-RH	17724	\$1,730	17711	\$350
CHIRALPAK AD-RH	19724	\$1,300	19711	\$270
CHIRALPAK AS-RH	20724	\$1,730	20711	\$350
CHIRALCEL OZ-RH	42724	\$1,730	42711	\$350
CHIRALPAK AY-RH	47724	\$1,730	47711	\$350
CHIRALPAK AZ-RH	61724	\$1,730	61711	\$350
CHIRALCEL OX-RH	63724	\$1,730	63711	\$350

* All Guard Cartridges for analytical columns require a cartridge holder – part #00011 (pg. 31).



Please call us for your custom column needs.

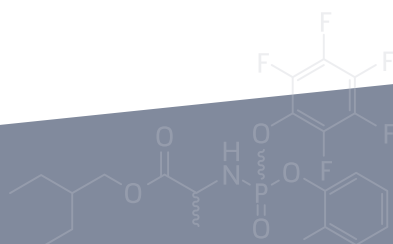
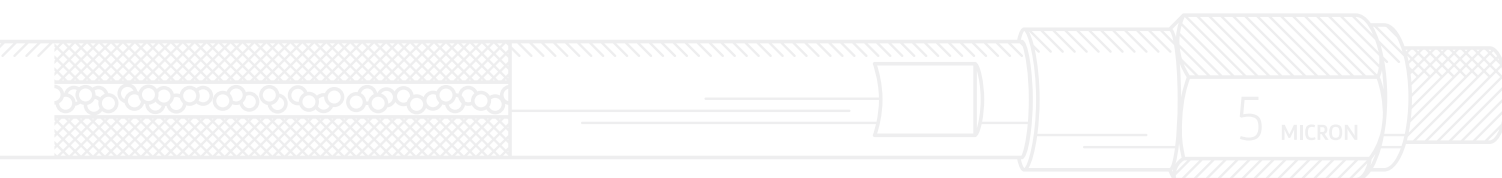
1-800-6CHIRAL

5 MICRON

IMMOBILIZED SEMI-PREP AND PREP COLUMNS - 5 μ m

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)													
	10 x 250		10 x 20 Guard		20 x 250		21 x 50 Guard		30 x 250		30 x 50 Guard		50 x 250	
NORMAL PHASE														
CHIRALPAK IA	80335	\$6,460	80337	\$2,920	80345	\$14,890	80342	\$3,520	80375	\$24,810	80372	\$6,670	80355	\$58,490
CHIRALPAK IB N-5	88335	\$6,460	88337	\$2,920	88345	\$14,890	88342	\$3,520	88375	\$24,810	88372	\$6,670	88355	\$58,490
CHIRALPAK IB	81335	\$6,460	81337	\$2,920	81345	\$14,890	81342	\$3,520	81375	\$24,810	81372	\$6,670	81355	\$58,490
CHIRALPAK IC	83335	\$6,460	83337	\$2,920	83345	\$14,890	83342	\$3,520	83375	\$24,810	83372	\$6,670	83355	\$58,490
CHIRALPAK ID	84335	\$6,460	84337	\$2,920	84345	\$14,890	84342	\$3,520	84375	\$24,810	84372	\$6,670	84355	\$58,490
CHIRALPAK IE	85335	\$6,460	85337	\$2,920	85345	\$14,890	85342	\$3,520	85375	\$24,810	85372	\$6,670	85355	\$58,490
CHIRALPAK IF	86335	\$6,460	86337	\$2,920	86345	\$14,890	86342	\$3,520	86375	\$24,810	86372	\$6,670	86355	\$58,490
CHIRALPAK IG	87335	\$6,460	87337	\$2,920	87345	\$14,890	87342	\$3,520	87375	\$24,810	87372	\$6,670	87355	\$58,490
CHIRALPAK IH	89335	\$6,460	89337	\$2,920	89345	\$14,890	89342	\$3,520	89375	\$24,810	89372	\$6,670	89355	\$58,490
CHIRALPAK IJ	90335	\$6,460	90337	\$2,920	90345	\$14,890	90342	\$3,520	90375	\$24,810	90372	\$6,670	90355	\$58,490
CHIRALPAK IK	91335	\$6,460	91337	\$2,920	91345	\$14,890	91342	\$3,520	91375	\$24,810	91372	\$6,670	91355	\$58,490
CHIRALPAK IM	92335	\$6,460	92337	\$2,920	92345	\$14,890	92342	\$3,520	92375	\$24,810	92372	\$6,670	92355	\$58,490
CHIRALPAK IN	93335	\$6,460	93337	\$2,920	93345	\$14,890	93342	\$3,520	93375	\$24,810	93372	\$6,670	93355	\$58,490
	10 x 250		10 x 50 Guard		21 x 250		21 x 50 Guard		30 x 250		30 x 50 Guard		50 x 250	
SFC														
CHIRALPAK IA/SFC	80435	\$6,460	80432	\$2,920	80445	\$14,890	80442	\$3,520	80475	\$24,810	80472	\$6,670	80455	\$58,490
CHIRALPAK IB N-5/SFC	88435	\$6,460	88432	\$2,920	88445	\$14,890	88442	\$3,520	88475	\$24,810	88472	\$6,670	88455	\$58,490
CHIRALPAK IB/SFC	81435	\$6,460	81432	\$2,920	81445	\$14,890	81442	\$3,520	81475	\$24,810	81472	\$6,670	81455	\$58,490
CHIRALPAK IC/SFC	83435	\$6,460	83432	\$2,920	83445	\$14,890	83442	\$3,520	83475	\$24,810	83472	\$6,670	83455	\$58,490
CHIRALPAK ID/SFC	84435	\$6,460	84432	\$2,920	84445	\$14,890	84442	\$3,520	84475	\$24,810	84472	\$6,670	84455	\$58,490
CHIRALPAK IE/SFC	85435	\$6,460	85432	\$2,920	85445	\$14,890	85442	\$3,520	85475	\$24,810	85472	\$6,670	85455	\$58,490
CHIRALPAK IF/SFC	86435	\$6,460	86432	\$2,920	86445	\$14,890	86442	\$3,520	86475	\$24,810	86472	\$6,670	86455	\$58,490
CHIRALPAK IG/SFC	87435	\$6,460	87432	\$2,920	87445	\$14,890	87442	\$3,520	87475	\$24,810	87472	\$6,670	87455	\$58,490
CHIRALPAK IH/SFC	89435	\$6,460	89432	\$2,920	89445	\$14,890	89442	\$3,520	89475	\$24,810	89472	\$6,670	89455	\$58,490
CHIRALPAK IJ/SFC	90435	\$6,460	90432	\$2,920	90445	\$14,890	90442	\$3,520	90475	\$24,810	90472	\$6,670	90455	\$58,490
CHIRALPAK IK/SFC	91435	\$6,460	91432	\$2,920	91445	\$14,890	91442	\$3,520	91475	\$24,810	91472	\$6,670	91455	\$58,490
CHIRALPAK IM/SFC	92435	\$6,460	92432	\$2,920	92445	\$14,890	92442	\$3,520	92475	\$24,810	92472	\$6,670	92455	\$58,490
CHIRALPAK IN/SFC	93435	\$6,460	93432	\$2,920	93445	\$14,890	93442	\$3,520	93475	\$24,810	93472	\$6,670	93455	\$58,490



Please call us for your custom column needs.

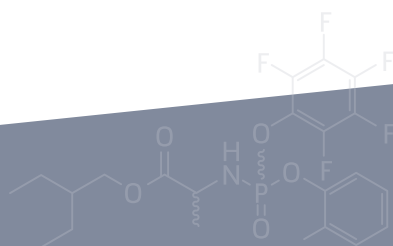
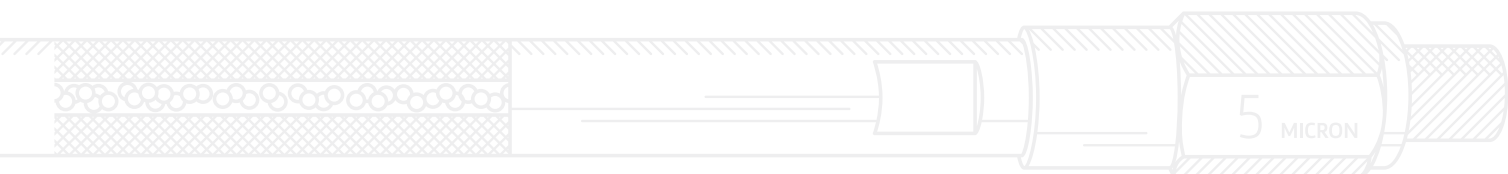
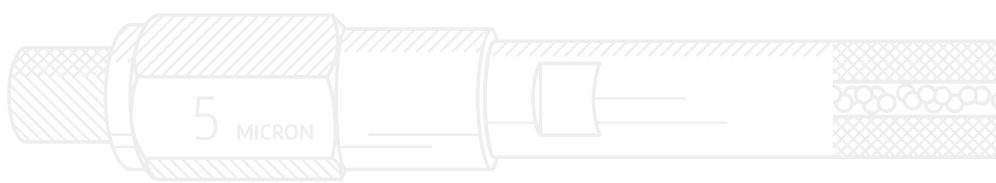
1-800-6CHIRAL

5 MICRON

COATED SEMI-PREP AND PREP COLUMNS - 5 μ m

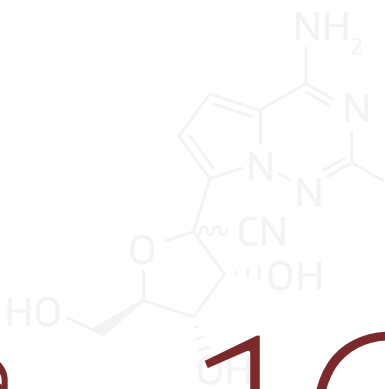
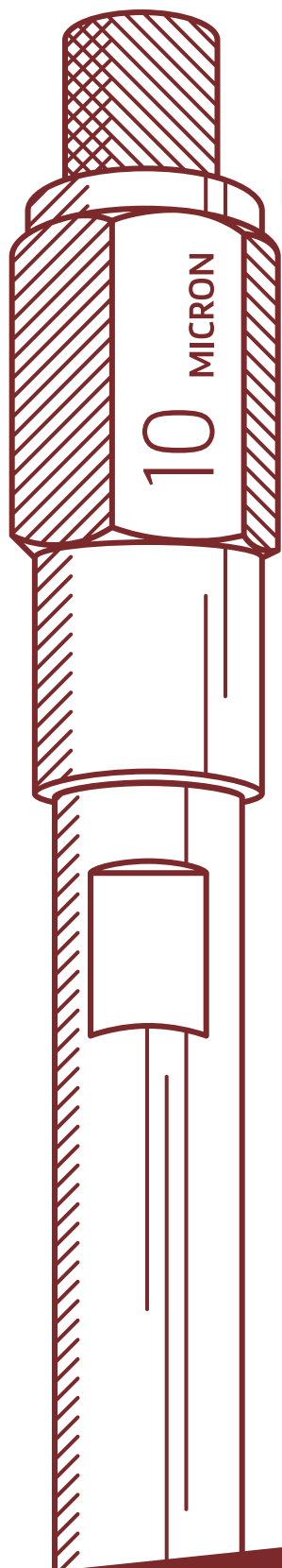
COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)													
	10 x 250		10 x 20 Guard		20 x 250		21 x 50 Guard		30 x 250		30 x 50 Guard		50 x 250	
NORMAL PHASE														
CHIRALCEL OD-H	14335	\$4,490	14337	\$2,030	14345	\$10,330	14342	\$2,520	14375	\$17,720	14372	\$4,870	14355	\$42,600
CHIRALCEL OJ-H	17335	\$5,970	17337	\$2,690	17345	\$13,770	17342	\$3,350	17375	\$23,630	17372	\$6,470	17355	\$56,790
CHIRALPAK AD-H	19335	\$4,490	19337	\$2,030	19345	\$10,330	19342	\$2,520	19375	\$17,720	19372	\$4,870	19355	\$42,600
CHIRALPAK AS-H	20335	\$5,970	20337	\$2,690	20345	\$13,770	20342	\$3,350	20375	\$23,630	20372	\$6,470	20355	\$56,790
CHIRALCEL OZ-H	42335	\$5,970	42337	\$2,690	42345	\$13,770	42342	\$3,350	42375	\$23,630	42372	\$6,470	42355	\$56,790
CHIRALPAK AY-H	47335	\$5,970	47337	\$2,690	47345	\$13,770	47342	\$3,350	47375	\$23,630	47372	\$6,470	47355	\$56,790
CHIRALPAK AZ-H	61335	\$5,970	61337	\$2,690	61345	\$13,770	61342	\$3,350	61375	\$23,630	61372	\$6,470	61355	\$56,790
CHIRALCEL OX-H	63335	\$5,970	63337	\$2,690	63345	\$13,770	63342	\$3,350	63375	\$23,630	63372	\$6,470	63355	\$56,790
	10 x 250		10 x 50 Guard		21 x 250		21 x 50 Guard		30 x 250		30 x 50 Guard		50 x 250	
SFC														
CHIRALCEL OD-H/ SFC	14435	\$4,490	14432	\$2,030	14445	\$10,330	14442	\$2,520	14475	\$17,720	14472	\$4,870	14455	\$42,600
CHIRALCEL OJ-H/ SFC	17435	\$5,970	17432	\$2,690	17445	\$13,770	17442	\$3,350	17475	\$23,630	17472	\$6,470	17455	\$56,790
CHIRALPAK AD-H/ SFC	19435	\$4,490	19432	\$2,030	19445	\$10,330	19442	\$2,520	19475	\$17,720	19472	\$4,870	19455	\$42,600
CHIRALPAK AS-H/ SFC	20435	\$5,970	20432	\$2,690	20445	\$13,770	20442	\$3,350	20475	\$23,630	20472	\$6,470	20455	\$56,790
CHIRALCEL OZ-H/ SFC	42435	\$5,970	42432	\$2,690	42445	\$13,770	42442	\$3,350	42475	\$23,630	42472	\$6,470	42455	\$56,790
CHIRALPAK AY-H/ SFC	47435	\$5,970	47432	\$2,690	47445	\$13,770	47442	\$3,350	47475	\$23,630	47472	\$6,470	47455	\$56,790
CHIRALPAK AZ-H/ SFC	61435	\$5,970	61432	\$2,690	61445	\$13,770	61442	\$3,350	61475	\$23,630	61472	\$6,470	61455	\$56,790
CHIRALCEL OX-H/ SFC	63435	\$5,970	63432	\$2,690	63445	\$13,770	63442	\$3,350	63475	\$23,630	63472	\$6,470	63455	\$56,790
	21 x 250													
REVERSED-PHASE ONLY														
CHIRALCEL OD-RH	14745	\$10,330												
CHIRALCEL OJ-RH	17745	\$13,770												
CHIRALPAK AD-RH	19745	\$10,330												
CHIRALPAK AS-RH	20745	\$13,770												
CHIRALCEL OZ-RH	42745	\$13,770												
CHIRALPAK AY-RH	47745	\$13,770												
CHIRALPAK AZ-RH	61745	\$13,770												
CHIRALCEL OX-RH	63745	\$13,770												



Please call us for your custom column needs.

1-800-6CHIRAL



10 MICRON

IMMOBILIZED AND COATED ANALYTICAL COLUMNS

10 μ m 2.1 mm I.D. Page 16

10 μ m 4.6 mm I.D. Page 16

IMMOBILIZED AND COATED SEMI-PREP AND PREP COLUMNS (OPTIMIZED FOR SFC)

10 μ m Page 17

COATED ANALYTICAL, SEMI-PREP AND PREP COLUMNS (OPTIMIZED FOR HPLC)

10 μ m Page 18

BULK CSP

10 μ m Page 19

10 MICRON

IMMOBILIZED ANALYTICAL COLUMNS - 10 µm 2.1 mm I.D. AND 4.6 mm I.D.

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	2.1 x 150		4.6 x 50 Guard		4.6 x 150		4.6 x 250	
CHIRALPAK IA-10	80♦94	\$1,690	80♦22	\$1,130	80♦24	\$1,870	80♦25	\$2,050
CHIRALPAK IB N-10	88♦94	\$1,690	88♦22	\$1,130	88♦24	\$1,870	88♦25	\$2,050
CHIRALPAK IC-10	83♦94	\$1,690	83♦22	\$1,130	83♦24	\$1,870	83♦25	\$2,050
CHIRALPAK ID-10	84♦94	\$1,690	84♦22	\$1,130	84♦24	\$1,870	84♦25	\$2,050
CHIRALPAK IE-10	85♦94	\$1,690	85♦22	\$1,130	85♦24	\$1,870	85♦25	\$2,050
CHIRALPAK IF-10	86♦94	\$1,690	86♦22	\$1,130	86♦24	\$1,870	86♦25	\$2,050
CHIRALPAK IG-10	87♦94	\$1,690	87♦22	\$1,130	87♦24	\$1,870	87♦25	\$2,050
CHIRALPAK IH-10	89♦94	\$1,690	89♦22	\$1,130	89♦24	\$1,870	89♦25	\$2,050
CHIRALPAK IJ-10	90♦94	\$1,690	90♦22	\$1,130	90♦24	\$1,870	90♦25	\$2,050
CHIRALPAK IK-10	91♦94	\$1,690	91♦22	\$1,130	91♦24	\$1,870	91♦25	\$2,050
CHIRALPAK IM-10	92♦94	\$1,690	92♦22	\$1,130	92♦24	\$1,870	92♦25	\$2,050
CHIRALPAK IN-10	93♦94	\$1,690	93♦22	\$1,130	93♦24	\$1,870	93♦25	\$2,050

LEGEND

♦ = Indicate choice of: Example:

E - Tested in Normal Phase 80E94

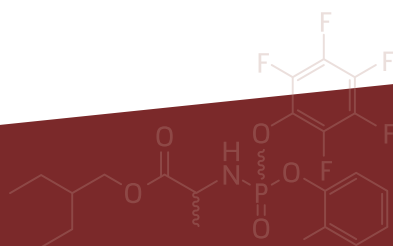
F - Tested in Reversed-Phase 80F94

G - Tested in SFC mode 80G94

COATED ANALYTICAL COLUMNS - 10 µm 2.1 mm I.D. AND 4.6 mm I.D.

OPTIMIZED FOR SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	2.1 x 150		4.6 x 50 Guard		4.6 x 150		4.6 x 250	
CHIRALCEL OD-10/SFC	14G94	\$1,240	14G22	\$435	14G24	\$1,300	14G25	\$1,440
CHIRALCEL OJ-10/SFC	17G694	\$1,640	17G22	\$580	17G24	\$1,730	17G25	\$1,900
CHIRALPAK AD-10/SFC	19G94	\$1,240	19G22	\$435	19G24	\$1,300	19G25	\$1,440
CHIRALPAK AS-10/SFC	20G94	\$1,640	20G22	\$580	20G24	\$1,730	20G25	\$1,900
CHIRALCEL OZ-10/SFC	42G94	\$1,640	42G22	\$580	42G24	\$1,730	42G25	\$1,900
CHIRALPAK AY-10/SFC	47G94	\$1,640	47G22	\$580	47G24	\$1,730	47G25	\$1,900
CHIRALPAK AZ-10/SFC	61G94	\$1,640	61G22	\$580	61G24	\$1,730	61G25	\$1,900
CHIRALCEL OX-10/SFC	63G94	\$1,640	63G22	\$580	63G24	\$1,730	63G25	\$1,900



Please call us for your custom column needs.

1-800-6CHIRAL

10 MICRON OPTIMIZED FOR SFC

IMMOBILIZED SEMI-PREP AND PREP COLUMNS - 10 μ m

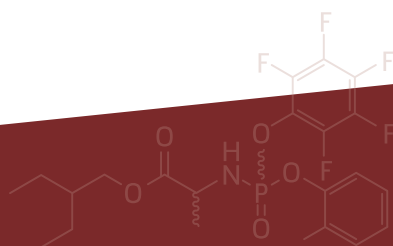
OPTIMIZED FOR SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	10 x 250		21 x 250		30 x 250		50 x 250	
CHIRALPAK IA-10/SFC	80G35	\$6,460	80G45	\$14,890	80G75	\$24,810	80G55	\$58,490
CHIRALPAK IB N-10/SFC	88G35	\$6,460	88G45	\$14,890	88G75	\$24,810	88G55	\$58,490
CHIRALPAK IC-10/SFC	83G35	\$6,460	83G45	\$14,890	83G75	\$24,810	83G55	\$58,490
CHIRALPAK ID-10/SFC	84G35	\$6,460	84G45	\$14,890	84G75	\$24,810	84G55	\$58,490
CHIRALPAK IE-10/SFC	85G35	\$6,460	85G45	\$14,890	85G75	\$24,810	85G55	\$58,490
CHIRALPAK IF-10/SFC	86G35	\$6,460	86G45	\$14,890	86G75	\$24,810	86G55	\$58,490
CHIRALPAK IG-10/SFC	87G35	\$6,460	87G45	\$14,890	87G75	\$24,810	87G55	\$58,490
CHIRALPAK IH-10/SFC	89G35	\$6,460	89G45	\$14,890	89G75	\$24,810	89G55	\$58,490
CHIRALPAK IJ-10/SFC	90G35	\$6,460	90G45	\$14,890	90G75	\$24,810	90G55	\$58,490
CHIRALPAK IK-10/SFC	91G35	\$6,460	91G45	\$14,890	91G75	\$24,810	91G55	\$58,490
CHIRALPAK IM-10/SFC	92G35	\$6,460	92G45	\$14,890	92G75	\$24,810	92G55	\$58,490
CHIRALPAK IN-10/SFC	93G35	\$6,460	93G45	\$14,890	93G75	\$24,810	93G55	\$58,490

COATED SEMI-PREP AND PREP COLUMNS - 10 μ m

OPTIMIZED FOR SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	10 x 250		21 x 250		30 x 250		50 x 250	
CHIRALCEL OD-10/SFC	14G35	\$4,490	14G45	\$10,330	14G75	\$17,720	14G55	\$42,600
CHIRALCEL OJ-10/SFC	17G35	\$5,970	17G45	\$13,770	17G75	\$23,630	17G55	\$56,790
CHIRALPAK AD-10/SFC	19G35	\$4,490	19G45	\$10,330	19G75	\$17,720	19G55	\$42,600
CHIRALPAK AS-10/SFC	20G35	\$5,970	20G45	\$13,770	20G75	\$23,630	20G55	\$56,790
CHIRALCEL OZ-10/SFC	42G35	\$5,970	42G45	\$13,770	42G75	\$23,630	42G55	\$56,790
CHIRALPAK AY-10/SFC	47G35	\$5,970	47G45	\$13,770	47G75	\$23,630	47G55	\$56,790
CHIRALPAK AZ-10/SFC	61G35	\$5,970	61G45	\$13,770	61G75	\$23,630	61G55	\$56,790
CHIRALCEL OX-10/SFC	63G35	\$5,970	63G45	\$13,770	63G75	\$23,630	63G55	\$56,790



Please call us for your custom column needs.

1-800-6CHIRAL

10 MICRON OPTIMIZED FOR HPLC

COATED ANALYTICAL COLUMNS - 10 µm 2.1 mm I.D.

OPTIMIZED FOR HPLC (NORMAL PHASE)

PRODUCT NAME	LENGTH (mm)	
	150	
CHIRALCEL OD	14094	\$1,240
CHIRALCEL OJ	17094	\$1,640
CHIRALPAK AD	19094	\$1,240
CHIRALPAK AS	20094	\$1,640

COATED ANALYTICAL COLUMNS - 10 µm 4.6 mm I.D.

OPTIMIZED FOR HPLC (NORMAL PHASE AND/OR REVERSED-PHASE)

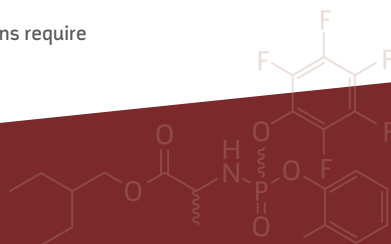
PRODUCT NAME	LENGTH (mm)					
	50 Guard		150		250	
NORMAL PHASE						
CHIRALCEL OD	14022	\$435	14024	\$1,300	14025	\$1,440
CHIRALCEL OA	11022	\$580	11024	\$1,730	11025	\$1,900
CHIRALCEL OB	12022	\$580	12024	\$1,730	12025	\$1,900
CHIRALCEL OC	13022	\$580	13024	\$1,730	13025	\$1,900
CHIRALCEL OF	15022	\$580	15024	\$1,730	15025	\$1,900
CHIRALCEL OG	16022	\$580	16024	\$1,730	16025	\$1,900
CHIRALCEL OK	18022	\$580	18024	\$1,730	18025	\$1,900
NORMAL PHASE AND REVERSED-PHASE						
CHIRALCEL OJ	17022	\$580	17024	\$1,730	17025	\$1,900
CHIRALPAK AD	19022	\$435	19024	\$1,300	19025	\$1,440
CHIRALPAK AS	20022	\$580	20024	\$1,730	20025	\$1,900
CHIRALPAK AY	47022	\$580	47024	\$1,730	47025	\$1,900
CHIRALPAK AZ	61022	\$580	61024	\$1,730	61025	\$1,900
PRODUCT NAME	LENGTH (mm)		GUARD CARTRIDGES (3)			
	250		4.0 x 10*			
REVERSED-PHASE ONLY						
CHIRALCEL OD-R	14625	\$1,440	14611	\$270	-	-

COATED SEMI-PREP AND PREP COLUMNS - 10 µm

OPTIMIZED FOR HPLC (NORMAL PHASE)

PRODUCT NAME	I.D. (mm) x LENGTH (mm)											
	10 x 50 Guard		10 x 250		20 x 50 Guard		20 x 250		30 x 50 Guard		30 x 250	
CHIRALCEL OD	14032	\$1,610	14035	\$4,490	14042	\$1,820	14045	\$10,330	14072	Call	14075	\$17,720
CHIRALCEL OJ	17032	\$2,150	17035	\$5,970	17042	\$2,420	17045	\$13,770	17072	Call	17075	\$23,630
CHIRALPAK AD	19032	\$1,610	19035	\$4,490	19042	\$1,820	19045	\$10,330	19072	Call	19075	\$17,720
CHIRALPAK AS	20032	\$2,150	20035	\$5,970	20042	\$2,420	20045	\$13,770	20072	Call	20075	\$23,630
CHIRALPAK AY	47032	\$2,150	47035	\$5,970	47042	\$2,420	47045	\$13,770	47072	Call	47075	\$23,630
CHIRALPAK AZ	61032	\$2,150	61035	\$5,970	61042	\$2,420	61045	\$13,770	61072	Call	61075	\$23,630

* All Guard Cartridges for analytical columns require a cartridge holder – part #00011 (pg. 31).



Please call us for your custom column needs.

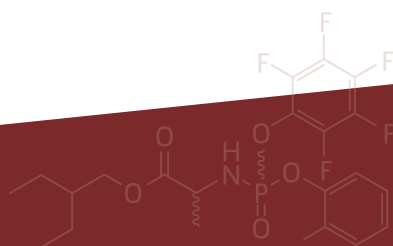
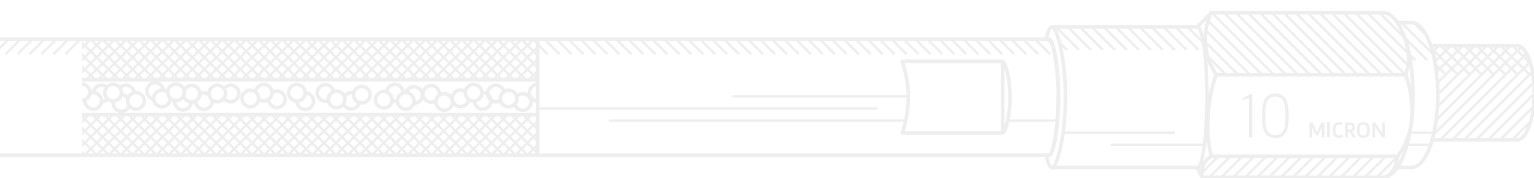
1-800-6CHIRAL

10 MICRON

10µm BULK CSP

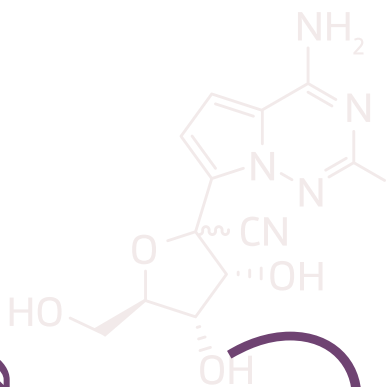
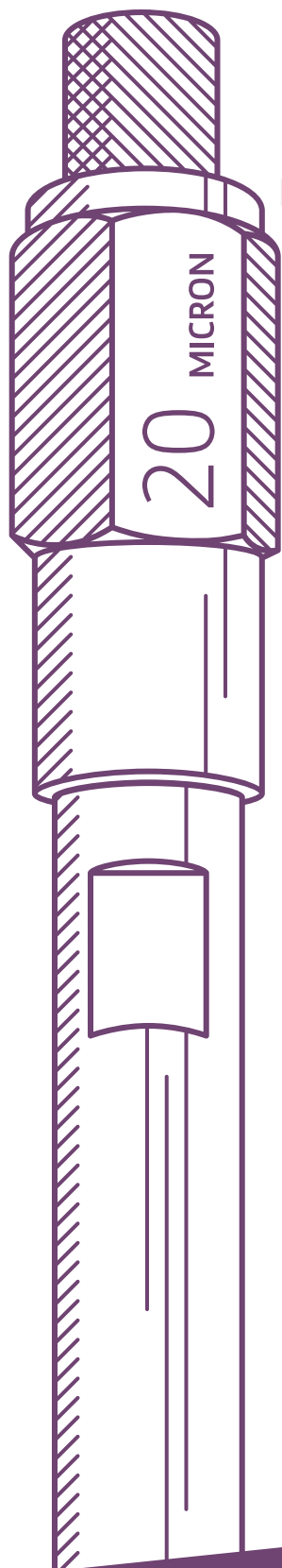
COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	QUANTITY	
	1 kg	
IMMOBILIZED - NORMAL PHASE, REVERSED-PHASE AND SFC		
CHIRALPAK IA-10	8000E	Call
CHIRALPAK IB N-10	8800E	Call
CHIRALPAK IC-10	8300E	Call
CHIRALPAK ID-10	8400E	Call
CHIRALPAK IE-10	8500E	Call
CHIRALPAK IF-10	8600E	Call
CHIRALPAK IG-10	8700E	Call
CHIRALPAK IH-10	8900E	Call
CHIRALPAK IJ-10	9000E	Call
CHIRALPAK IK-10	9100E	Call
CHIRALPAK IM-10	9200E	Call
CHIRALPAK IN-10	9300E	Call
COATED - NORMAL PHASE, REVERSED-PHASE AND SFC		
CHIRALCEL OD-10	1400E	Call
CHIRALCEL OJ-10	1700E	Call
CHIRALPAK AD-10	1900E </td <td>Call</td>	Call
CHIRALPAK AS-10	2000E	Call
CHIRALCEL OZ-10	4200E	Call
CHIRALPAK AY-10	4700E	Call
CHIRALPAK AZ-10	6100E	Call
CHIRALCEL OX-10	6300E	Call



Please call us for your custom column needs.

1-800-6CHIRAL



20 MICRON

IMMOBILIZED ANALYTICAL SCALE COLUMNS

20 μm 4.6 mm I.D.

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COATED ANALYTICAL SCALE COLUMNS

20 μm 4.6 mm I.D.

Page 21

IMMOBILIZED PREP COLUMNS

20 μm

Page 21

COATED PREP COLUMNS

20 μm

Page 22

BULK CSP

20 μm

Page 22

20 MICRON

IMMOBILIZED ANALYTICAL SCALE COLUMNS (FOR PREP-METHOD DEVELOPMENT) - 20 µm 4.6 mm I.D.

COMPATIBLE WITH HPLC

(NORMAL PHASE AND REVERSED-PHASE)

PRODUCT NAME	LENGTH (mm)	
	250	
CHIRALPAK IA	80225	\$2,050
CHIRALPAK IB N-20	88225	\$2,050
CHIRALCEL OD-I	82225	\$2,050
CHIRALPAK IC	83225	\$2,050
CHIRALPAK ID	84225	\$2,050
CHIRALPAK IE	85225	\$2,050
CHIRALPAK IF	86225	\$2,050
CHIRALPAK IG	87225	\$2,050
CHIRALPAK IH	89225	\$2,050
CHIRALPAK IJ	90225	\$2,050
CHIRALPAK IK	91225	\$2,050
CHIRALPAK IM	92225	\$2,050
CHIRALPAK IN	93225	\$2,050

COATED ANALYTICAL SCALE COLUMNS (FOR PREP-METHOD DEVELOPMENT) - 20 µm 4.6 mm I.D.

COMPATIBLE WITH HPLC

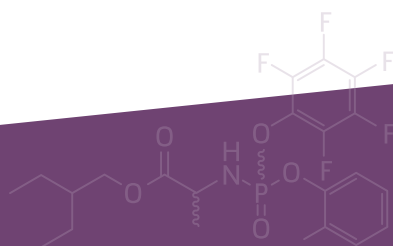
(NORMAL PHASE)

PRODUCT NAME	LENGTH (mm)	
	250	
CHIRALCEL OD	14225	\$1,440
CHIRALCEL OJ	17225	\$1,900
CHIRALPAK AD	19225	\$1,440
CHIRALPAK AS	20225	\$1,900
CHIRALCEL OZ	42225	\$1,900
CHIRALPAK AY	47225	\$1,900
CHIRALPAK AZ	61225	\$1,900
CHIRALCEL OX	63225	\$1,900

IMMOBILIZED PREP COLUMNS - 20 µm

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE)

PRODUCT NAME	I.D. (mm) x LENGTH (mm)			
	50 x 500		100 x 500	
	I.D. (mm)	LENGTH (mm)	I.D. (mm)	LENGTH (mm)
CHIRALPAK IA	80256	\$36,830	80266	\$88,040
CHIRALPAK IB N-20	88256	\$36,830	88266	\$88,040
CHIRALCEL OD-I	82256	\$36,830	82266	\$88,040
CHIRALPAK IC	83256	\$36,830	83266	\$88,040
CHIRALPAK ID	84256	\$36,830	84266	\$88,040
CHIRALPAK IE	85256	\$36,830	85266	\$88,040
CHIRALPAK IF	86256	\$36,830	86266	\$88,040
CHIRALPAK IG	87256	\$36,830	87266	\$88,040
CHIRALPAK IH	89256	\$36,830	89266	\$88,040
CHIRALPAK IJ	90256	\$36,830	90266	\$88,040
CHIRALPAK IK	91256	\$36,830	91266	\$88,040
CHIRALPAK IM	92256	\$36,830	92266	\$88,040
CHIRALPAK IN	93256	\$36,830	93266	\$88,040



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1-800-6CHIRAL

20 MICRON

COATED PREP COLUMNS - 20 μ m

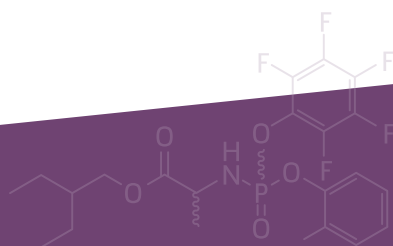
COMPATIBLE WITH HPLC (NORMAL PHASE)

PRODUCT NAME	I.D. (mm) x LENGTH (mm)			
	50 x 500		100 x 500	
CHIRALCEL OD	14256	\$26,310	14266	\$62,890
CHIRALCEL OJ	17256	\$35,080	17266	\$83,850
CHIRALPAK AD	19256	\$26,310	19266	\$62,890
CHIRALPAK AS	20256	\$35,080	20266	\$83,850
CHIRALCEL OZ	42256	\$35,080	42266	\$83,850
CHIRALPAK AY	47256	\$35,080	47266	\$83,850
CHIRALPAK AZ	61256	\$35,080	61266	\$83,850
CHIRALCEL OX	63256	\$35,080	63266	\$83,850

20 μ m BULK CSP

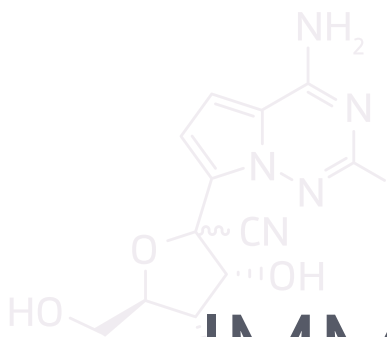
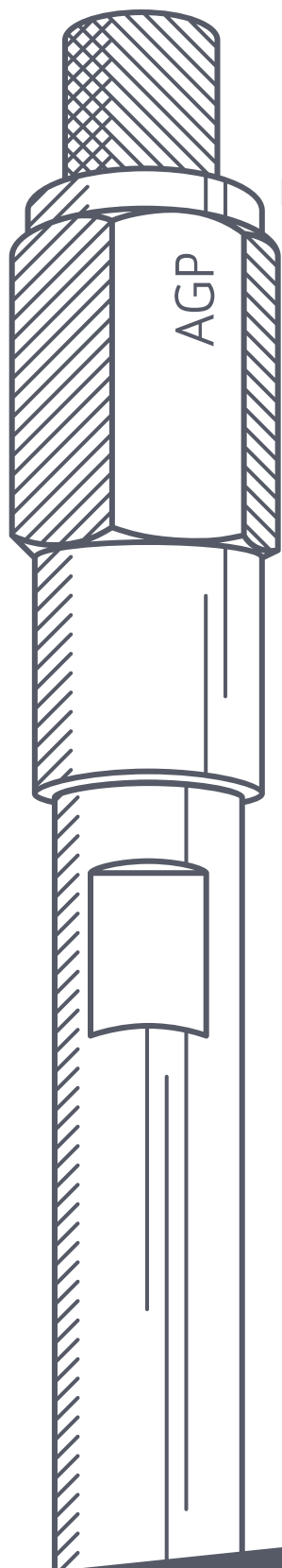
COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE)

PRODUCT NAME	QUANTITY			
	1 kg		100 g	
IMMOBILIZED - NORMAL PHASE AND REVERSED-PHASE				
CHIRALPAK IA	80020	Call	80021	Call
CHIRALPAK IB N-20	88020	Call	88021	Call
CHIRALCEL OD-I	82020	Call	82021	Call
CHIRALPAK IC	83020	Call	83021	Call
CHIRALPAK ID	84020	Call	84021	Call
CHIRALPAK IE	85020	Call	85021	Call
CHIRALPAK IF	86020	Call	86021	Call
CHIRALPAK IG	87020	Call	87021	Call
CHIRALPAK IH	89020	Call	89021	Call
CHIRALPAK IJ	90020	Call	90021	Call
CHIRALPAK IK	91020	Call	91021	Call
CHIRALPAK IM	92020	Call	92021	Call
CHIRALPAK IN	93020	Call	93021	Call
COATED - NORMAL PHASE AND REVERSED-PHASE				
CHIRALCEL OD	14020	Call	14021	Call
CHIRALCEL OJ	17020	Call	17021	Call
CHIRALPAK AD	19020	Call	19021	Call
CHIRALPAK AS	20020	Call	20021	Call
CHIRALCEL OZ	42020	Call	42021	Call
CHIRALPAK AY	47020	Call	47021	Call
CHIRALPAK AZ	61020	Call	61021	Call
CHIRALCEL OX	63020	Call	63021	Call



Please call us for your custom column needs.

1-800-6CHIRAL



IMMOBILIZED PROTEIN-BASED COLUMNS

IMMOBILIZED PROTEIN-BASED COLUMNS

5 μ m 2.1 mm I.D. Page 24

5 μ m 3.0 mm I.D. Page 24

5 μ m 4.0 mm I.D. Page 24

IMMOBILIZED PROTEIN-BASED SEMI-PREP COLUMNS

5 μ m Page 25

Column Accessories Page 25

IMMOBILIZED PROTEIN-BASED COLUMNS

IMMOBILIZED PROTEIN-BASED COLUMNS - 5 µm 2.1 mm I.D

COMPATIBLE WITH HPLC (REVERSED-PHASE)

PRODUCT NAME	LENGTH (mm)						GUARD CARTRIDGES (2)	
	50		100		150		2.0 x 10*	
CHIRALPAK AGP	30792	\$1,610	30793	\$2,050	30794	\$2,540	30791	\$395
CHIRALPAK CBH	33792	\$1,610	33793	\$2,050	33794	\$2,540	33791	\$395
CHIRALPAK HSA	34792	\$1,500	34793	\$1,810	34794	\$2,160	34791	\$340
CHIRALPAK BSA	35792	\$2,630	-	-	-	-	-	-
CHIRALPAK DSA	36792	\$2,630	-	-	-	-	-	-
CHIRALPAK RSA	38792	\$2,630	-	-	-	-	-	-

IMMOBILIZED PROTEIN-BASED COLUMNS - 5 µm 3.0 mm I.D

COMPATIBLE WITH HPLC (REVERSED-PHASE)

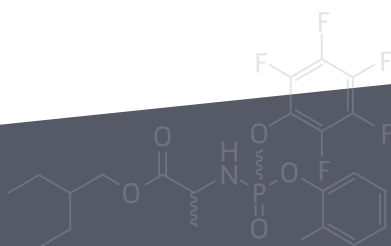
PRODUCT NAME	LENGTH (mm)						GUARD CARTRIDGES (2)	
	50		100		150		3.0 x 10*	
CHIRALPAK AGP	30782	\$1,470	30783	\$1,850	30784	\$2,310	30781	\$395
CHIRALPAK CBH	33782	\$1,470	33783	\$1,850	33784	\$2,310	33781	\$395
CHIRALPAK HSA	34782	\$1,350	34783	\$1,640	34784	\$2,020	34781	\$340
CHIRALPAK BSA	35782	\$2,480	-	-	-	-	-	-
CHIRALPAK DSA	36782	\$2,480	-	-	-	-	-	-
CHIRALPAK MSA	37782	\$4,160	-	-	-	-	-	-
CHIRALPAK RSA	38782	\$2,480	-	-	-	-	-	-
CHIRALPAK PSA	43782	\$4,160	-	-	-	-	-	-

IMMOBILIZED PROTEIN-BASED COLUMNS - 5 µm 4.0 mm I.D

COMPATIBLE WITH HPLC (REVERSED-PHASE)

PRODUCT NAME	LENGTH (mm)						GUARD CARTRIDGES (2)	
	50		100		150		4.0 x 10*	
CHIRALPAK AGP	30712	\$1,470	30713	\$1,850	30714	\$2,310	30711	\$465
CHIRALPAK CBH	33712	\$1,470	33713	\$1,850	33714	\$2,310	33711	\$465
CHIRALPAK HSA	34712	\$1,350	34713	\$1,640	34714	\$2,020	34711	\$415
CHIRALPAK BSA	35712	\$2,480	-	-	35714	\$4,060	-	-
CHIRALPAK DSA	36712	\$2,480	-	-	36714	\$4,060	-	-
CHIRALPAK MSA	37712	\$5,050	-	-	-	-	-	-
CHIRALPAK RSA	38712	\$2,480	-	-	38714	\$4,060	-	-
CHIRALPAK PSA	43712	\$5,050	-	-	-	-	-	-

* All Guard Cartridges for Immobilized Protein-Based Columns require a cartridge holder - part #00081 (pg. 25).



Please call us for your custom column needs.

1-800-6CHIRAL

IMMOBILIZED PROTEIN-BASED COLUMNS

IMMOBILIZED PROTEIN-BASED COLUMNS - SEMI-PREP COLUMNS - 5 μ m

COMPATIBLE WITH HPLC (REVERSED-PHASE)

PRODUCT NAME	I.D. (mm) x LENGTH (mm)			
	10 x 100		10 x 150	
CHIRALPAK AGP	30733	\$8,570	30734	\$12,850
CHIRALPAK CBH	33733	\$8,570	33734	\$12,850
CHIRALPAK HSA	34733	\$7,250	34734	\$12,130

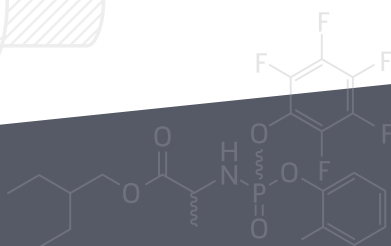
IMMOBILIZED PROTEIN-BASED COLUMN ACCESSORIES

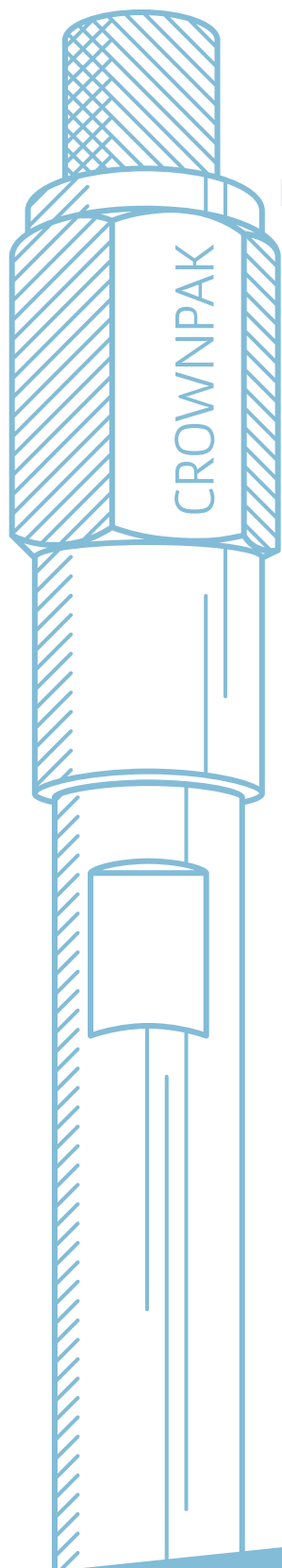
PRODUCT NAME		
GUARD CARTRIDGE HOLDER	00081	\$195
GUARD COLUMN COUPLER	000D1	\$105
GUARD COLUMN MICRO-COUPLER	000D2	\$125



Please call us for your custom column needs.

1-800-6CHIRAL





SPECIALTY COLUMNS

NC1=NC2=C(N1)C(=O)C(O)C2O

ZWITTERIONIC COLUMNS

3 μm Page 27

5 μm Page 27

ANION EXCHANGE COLUMNS

5 μm Page 27

IMMOBILIZED CROWN ETHER COLUMNS

5 μm Page 28

COATED CROWN ETHER COLUMNS

5 μm Page 28

LIGAND EXCHANGE COLUMNS Page 28

IMMOBILIZED MPLC COLUMNS

20 μm Page 28

IMMOBILIZED CHIRAL TLC PLATES

20 μm Page 28

SPECIALTY COLUMNS

ZWITTERIONIC COLUMNS - ANALYTICAL - 3 μ m

COMPATIBLE WITH HPLC (POLAR ORGANIC PHASE AND HYDRO-ORGANIC PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	3.0 x 150		3.0 x 250		4.0 x 150		4.0 x 250	
CHIRALPAK ZWIX(+)	51584	\$2,080	51585	\$2,080	51514	\$2,080	51515	\$2,080
CHIRALPAK ZWIX(-)	52584	\$2,080	52585	\$2,080	52514	\$2,080	52515	\$2,080

ZWITTERIONIC COLUMNS - SEMI-PREP - 5 μ m

COMPATIBLE WITH HPLC (POLAR ORGANIC PHASE AND HYDRO-ORGANIC PHASE) AND SFC

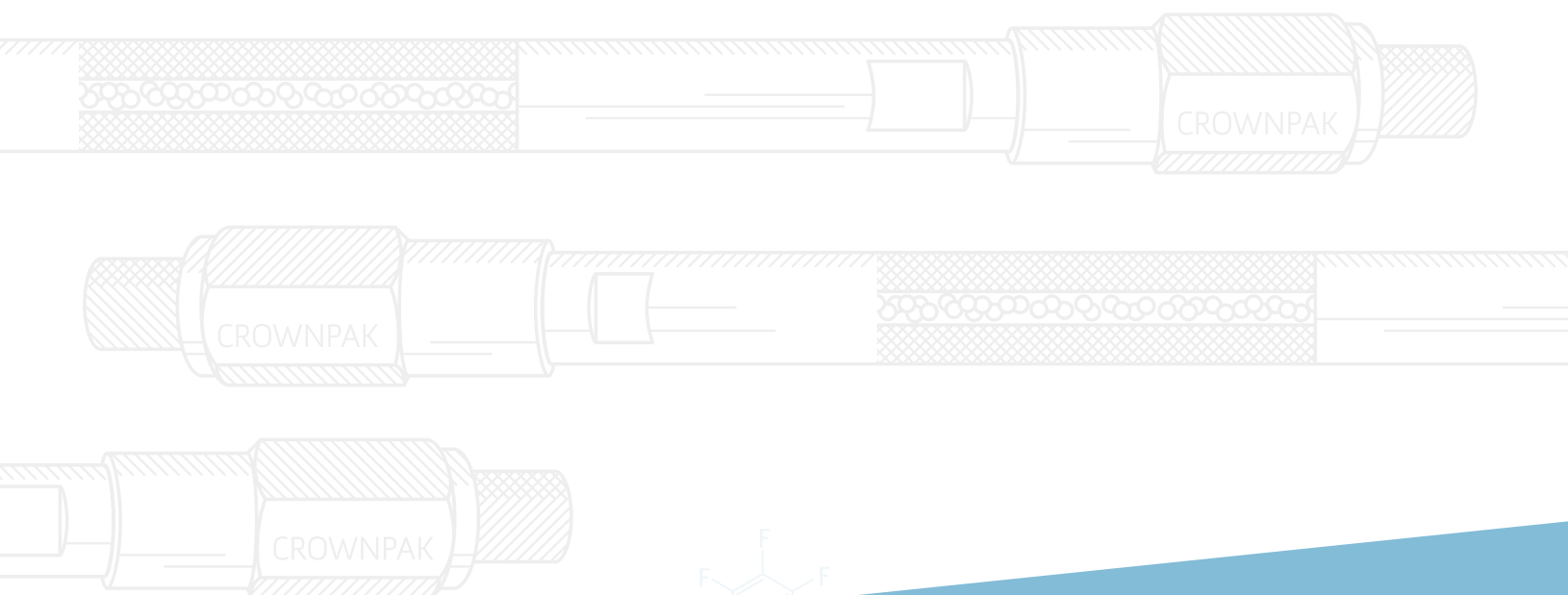
PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	10 x 150		10 x 250		21 x 150		21 x 250	
CHIRALPAK ZWIX(+)	51334	\$8,240	51335	\$9,190	51344	\$12,480	51345	\$15,210
CHIRALPAK ZWIX(-)	52334	\$8,240	52335	\$9,190	52344	\$12,480	52345	\$15,210

ANION EXCHANGE COLUMNS - 5 μ m

COMPATIBLE WITH HPLC (POLAR ORGANIC PHASE AND HYDRO-ORGANIC PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)									
	ANALYTICAL				GUARD CARTRIDGES (3)		HPLC SEMI-PREP		SFC SEMI-PREP	
	2.1 x 150		4.6 x 150		4.0 x 10*		21 x 150		21 x 150	
CHIRALPAK QD-AX	31394	\$1,740	31324	\$1,920	31311	\$395	31344	\$13,450	31444	\$13,450
CHIRALPAK QN-AX	32394	\$1,740	32324	\$1,920	32311	\$395	32344	\$13,450	32444	\$13,450

* All Guard Cartridges for analytical columns require a cartridge holder – part #00011 (pg. 31).



Please call us for your custom column needs.

1-800-6CHIRAL

SPECIALTY COLUMNS

IMMOBILIZED CROWN ETHER COLUMNS - 5 μ m

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE)

PRODUCT NAME	I.D. (mm) x LENGTH (mm)	
	ANALYTICAL	
	3.0 x 150	
CROWNPAK CR-I(+)	53784	\$2,030
CROWNPAK CR-I(-)	54784	\$2,030

COATED CROWN ETHER COLUMNS - 5 μ m

COMPATIBLE WITH HPLC (REVERSED-PHASE)

PRODUCT NAME	I.D. (mm) x LENGTH (mm)			
	ANALYTICAL		GUARD COLUMN	
	4.0 x 150		4.0 x 10	
CROWNPAK CR	-	-	27711	\$290
CROWNPAK CR(+)	27714	\$1,900	-	-
CROWNPAK CR(-)	28714	\$1,900	-	-

LIGAND EXCHANGE COLUMNS - ANALYTICAL

COMPATIBLE WITH HPLC (REVERSED-PHASE)

PRODUCT NAME	PARTICLE SIZE (μ m)		I.D. (mm)	LENGTH (mm)	
CHIRALPAK MA(+)	21822	3	4.6	50	\$1,900
CHIRALPAK WH GUARD	25622	10	4.6	50	\$580
CHIRALPAK WH	25625	10	4.6	250	\$1,900

IMMOBILIZED MPLC COLUMNS METHOD DEVELOPMENT - 20 μ m

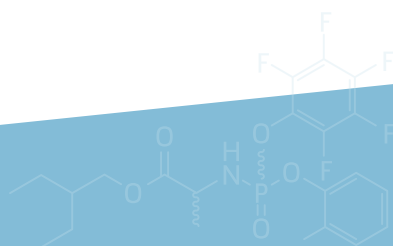
PRODUCT NAME	I.D. (mm) x LENGTH (mm)	
	4.6 x 100	
CHIRALPAK IA	80223	\$1,400
CHIRALPAK IC	83223	\$1,400
CHIRALPAK ID	84223	\$1,400
CHIRALPAK IE	85223	\$1,400
CHIRALPAK IF	86223	\$1,400
CHIRALPAK IG	87223	\$1,400

IMMOBILIZED MPLC COLUMNS SEMI-PREP - 20 μ m

PRODUCT NAME	I.D. (mm) x LENGTH (mm)	
	30 x 100	
CHIRALFLASH IA	80M73	\$3,800
CHIRALFLASH IC	83M73	\$3,800
CHIRALFLASH ID	84M73	\$3,800
CHIRALFLASH IE	85M73	\$3,800
CHIRALFLASH IF	86M73	\$3,800
CHIRALFLASH IG	87M73	\$3,800

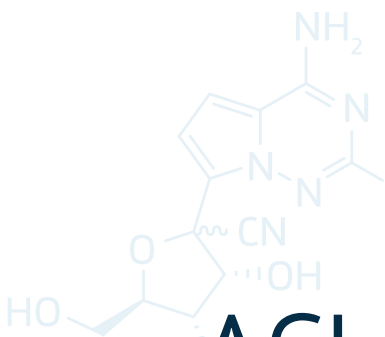
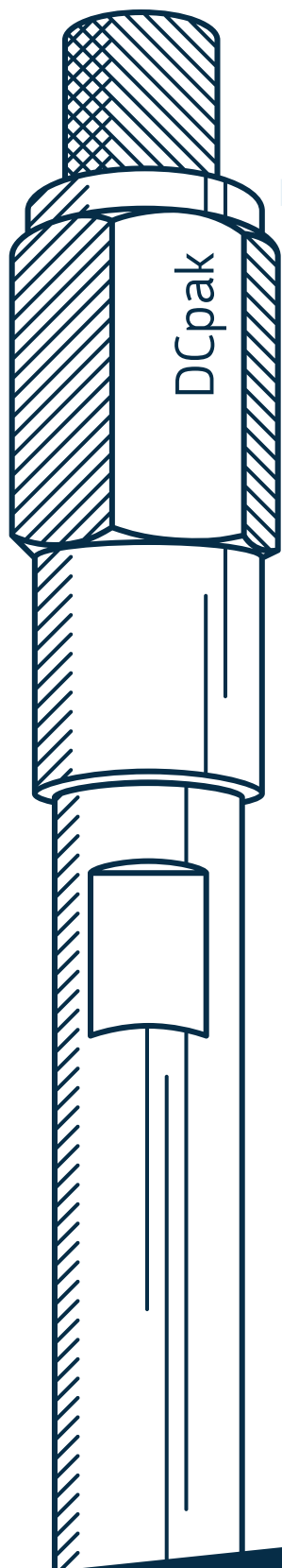
IMMOBILIZED CHIRAL TLC PLATES METHOD DEVELOPMENT - 20 μ m

PRODUCT NAME	I.D. (mm) x LENGTH (mm)	
	200 x 100	
2L-ChiralTLC 5 (5-pkg/1 each)	5ST5A	\$1,470
2L-ChiralTLC IA (2-pkg)	80T2A	\$710
2L-ChiralTLC IC (2-pkg)	83T2A	\$710
2L-ChiralTLC ID (2-pkg)	84T2A	\$710
2L-ChiralTLC IE (2-pkg)	85T2A	\$710
2L-ChiralTLC IF (2-pkg)	86T2A	\$710



Please call us for your custom column needs.

1-800-6CHIRAL



ACHIRAL COLUMNS

ANALYTICAL COLUMNS

3 μm Page 30

5 μm Page 30

SEMI-PREP AND PREP COLUMNS

5 μm Page 30

ACHIRAL COLUMNS

ACHIRAL COLUMNS - ANALYTICAL - 3 μm

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)					
	2.1 x 50		2.1 x 100		2.1 x 150	
DCpak PBT	AAS92	\$650	AAS93	\$680	AAS94	\$710
DCpak P4VP	ABS92	\$650	ABS93	\$680	ABS94	\$710
DCpak PTZ	AC592	\$650	AC593	\$680	AC594	\$710
DCpak PMPC	AD592	\$650	AD593	\$680	AD594	\$710
PRODUCT NAME	3.0 x 50		3.0 x 100		3.0 x 150	
	AAS82	\$650	AAS83	\$680	AAS84	\$710
DCpak PBT	AAS82	\$650	AAS83	\$680	AAS84	\$710
DCpak P4VP	ABS82	\$650	ABS83	\$680	ABS84	\$710
DCpak PTZ	AC582	\$650	AC583	\$680	AC584	\$710
DCpak PMPC	AD582	\$650	AD583	\$680	AD584	\$710

PRODUCT NAME	I.D. (mm) x LENGTH (mm)								GUARD CARTRIDGES (3) Recommended for LC use only	
	4.6 x 50		4.6 x 100		4.6 x 150		4.6 x 250		4.0 x 10*	
DCpak PBT	AAS22	\$650	AAS23	\$680	AAS24	\$710	AAS25	\$800	AA511	\$280
DCpak P4VP	ABS22	\$650	ABS23	\$680	ABS24	\$710	ABS25	\$800	AB511	\$280
DCpak PTZ	AC522	\$650	AC523	\$680	AC524	\$710	AC525	\$800	AC511	\$280
DCpak PMPC	AD522	\$650	AD523	\$680	AD524	\$710	AD525	\$800	AD511	\$280

ACHIRAL COLUMNS - ANALYTICAL - 5 μm

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

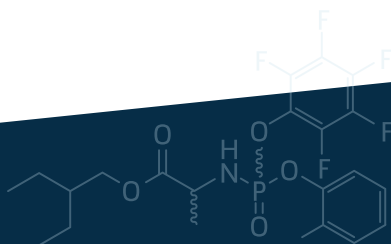
PRODUCT NAME	I.D. (mm) x LENGTH (mm)								GUARD CARTRIDGES (3) Recommended for LC use only	
	2.1 x 150		2.1 x 250		4.6 x 150		4.6 x 250		4.0 x 10*	
DCpak PBT	AA494	\$710	AA495	\$790	AA424	\$710	AA425	\$790	AA311	\$280
DCpak P4VP	AB494	\$710	AB495	\$790	AB424	\$710	AB425	\$790	AB311	\$280
DCpak PTZ	AC394	\$710	AC395	\$790	AC324	\$710	AC325	\$790	AC311	\$280
DCpak PMPC	AD394	\$710	AD395	\$790	AD324	\$710	AD325	\$790	AD311	\$280

ACHIRAL COLUMNS - SEMI-PREP AND PREP - 5 μm

COMPATIBLE WITH HPLC (NORMAL PHASE AND REVERSED-PHASE) AND SFC

PRODUCT NAME	I.D. (mm) x LENGTH (mm)							
	10 x 250		20 x 250		30 x 250		50 x 250	
DCpak PBT	AA435	\$2,310	AA445	\$4,830	AA475	\$9,520	AA455	\$23,340
DCpak P4VP	AB435	\$2,310	AB445	\$4,830	AB475	\$9,520	AB455	\$23,340
DCpak PTZ	AC335	\$2,310	AC345	\$4,830	AC375	\$9,520	AC355	\$23,340
DCpak PMPC	AD335	\$2,310	AD345	\$4,830	AD375	\$9,520	AD355	\$23,340

* All Guard Cartridges for analytical columns require a cartridge holder – part #00011 (pg. 31).



Please call us for your custom column needs.

1-800-6CHIRAL

COLUMN ACCESSORIES

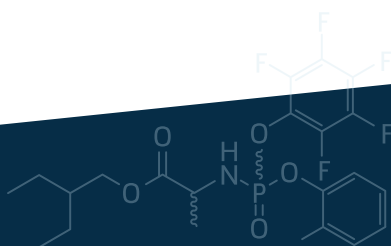
COLUMN ACCESSORIES

PRODUCT NAME	PRODUCT TYPE	PART NUMBER	I.D. (mm)	LENGTH (mm)	
Cartridge Holder	Holder	00011	4.0	10	\$175
Column Jacket, 15 cm	Jacket	00024	4.6	150	\$195
Column Jacket, 25 cm	Jacket	00025	4.6	250	\$195
Pre Column Filter Assembly	Holder and Filter	00060	21.2	-	\$330
Pre Column Filter, 2 micron	Replacement Filter	00061	21.2	-	\$30
Assembly O-Rings	Replacement O-Rings, set of 2	00062	-	-	\$60
Guard Filter Kit (1 holder, 3 glass filters, 2 fittings and 1 tubing)	Holder, Filters (3), Fittings (2) and Tubing	FK002	-	-	\$720
Replacement Guard Filters	Guard Filters (6)	FR002	-	-	\$570



Please call us for your custom column needs.

1-800-6CHIRAL



CHIRAL TECHNOLOGIES, INC.
STANDARD TERMS AND CONDITIONS OF
SALE (EFFECTIVE APRIL 1, 2002 - revised 4/2023)

The following terms and conditions (the "Terms and Conditions") apply to all sales of chiral chromatography products (collectively, the "Products") by Chiral Technologies, Inc. ("CHIRAL") to its customers (each, a "CUSTOMER"). References to a "Party" or to the "Parties" herein shall mean either CHIRAL or CUSTOMER or each of them together. Each of the Parties agrees that it is entering into this agreement for the purpose of purchasing or selling, as the case may be, the Products, which the CUSTOMER shall only use for research purposes and not in connection with any other medical, clinical or other use. By ordering or accepting any Products from CHIRAL, CUSTOMER agrees to the foregoing and to be legally bound as follows:

SECTION 1. FORMATION OF THE CONTRACT. An agreement between the Parties, if made and entered into by way of a purchase order and an acceptance thereof, shall be deemed to have been made and entered into when CUSTOMER has issued a written purchase order and CHIRAL has accepted said purchase order. Any alteration and/or supplement to any purchase order shall be valid only if such alteration and/or supplement is accepted by CHIRAL.

SECTION 2. QUOTATIONS. Unless otherwise specified in a written statement signed by CHIRAL, no price quote by CHIRAL shall be binding. Any binding price quote given by CHIRAL shall be effective for thirty (30) days, unless otherwise specified in a written statement signed by CHIRAL.

SECTION 3. TERMS OF PAYMENT. CHIRAL will invoice CUSTOMER for Products upon shipment. All payments owed by CUSTOMER to CHIRAL, including, without limitation, payment for the purchase price of Products purchased, applicable taxes and cancellation charges, are payable in U.S. Dollars and will be due thirty (30) days after the invoice date of the Products. Interest shall accrue at the rate of ten percent (10%) per annum on the amount due commencing thirty (30) days after the invoice date; provided that, in the event that such interest rate violates applicable usury laws, such rate shall be reduced to the highest rate (if any) allowed by such laws.

SECTION 4. DELIVERY OF PRODUCTS; CANCELLATION AND DELAYED ORDERS. CHIRAL and CUSTOMER shall agree on a mutually convenient delivery schedule for Products. All Products shall be shipped F.O.B. CHIRAL's facility. Unless documented elsewhere, title of the product transfers to the buyer upon shipment. Title and invoicing for direct shipments to customers by CHIRAL's overseas affiliates will occur upon receipt of the product by the customer. CHIRAL reserves the right to ship Products prior to the agreed shipment date in order to accommodate CHIRAL's overall delivery schedules. CUSTOMER shall have no right to cancel any purchase order or to reschedule any scheduled delivery of Products covered by a purchase order, except with CHIRAL's written permission.

SECTION 5. INSPECTION. Upon receipt of Products, CUSTOMER shall promptly inspect such Products. If upon such inspection, CUSTOMER finds any Products to be defective, CUSTOMER shall promptly provide CHIRAL with written notification of such condition.

SECTION 6. TRADEMARKS. CUSTOMER shall not remove from the Products (or their packaging or documentation), or alter, any of CHIRAL's trademarks, trade names, logos, patent or copyright notices, or other notices or markings, or add any other notices or markings to the Products, without the prior express written consent of CHIRAL.

SECTION 7. LIMITED WARRANTY.

A. WARRANTY TERMS. Subject to the provisions of this Section 7 and Section 8 below, with respect to each Product sold by CHIRAL hereunder, CHIRAL warrants that for a period of one

(1) year from the date of sale (the "Warranty Period") such product will be free from defects in materials or faulty workmanship and shall comply with quality specifications for such Product published by CHIRAL. The warranties provided by CHIRAL in this Section 7.A are the only warranties provided by CHIRAL with respect to the Products sold hereunder, and may be modified or amended only by a written instrument signed by CHIRAL and accepted by CUSTOMER.

B. WARRANTY CLAIMS. If, during the applicable Warranty Period for a Product sold by CHIRAL hereunder, it is determined that Product does not conform to the limited warranty set forth in Section 7.A, then CUSTOMER shall notify CHIRAL of such condition and request authorization to return the Product to exercise the CUSTOMER'S warranty rights. CUSTOMER may, after obtaining a return authorization number and shipping instructions from CHIRAL, return such Product to CHIRAL. Upon receipt of any such Product during the applicable Warranty Period, CHIRAL shall, at its option and expense (1) repair or replace such Product, and ship such Product to the location from which it was returned to CHIRAL, or (2) give CUSTOMER a credit for such Product. All replaced Products or Products returned to CHIRAL for credit shall become CHIRAL'S property. Repair or replacement of a Product does not extend the Warranty Period for such Product.

C. OTHER LIMITATIONS. THE EXPRESS LIMITED WARRANTIES OF CHIRAL STATED IN SECTION 7.A ABOVE DO NOT APPLY TO (1) PROTEIN-BASED PRODUCTS (2) PRODUCTS USED FOR MEDICAL, CLINICAL OR ANY OTHER USE OTHER THAN RESEARCH USE, (3) PRODUCTS WHICH HAVE BEEN IMPROPERLY TRANSPORTED, INSTALLED OR USED, ALTERED, MODIFIED, REPAIRED OR SERVICED IN ANY RESPECT, EXCEPT BY CHIRAL OR ITS REPRESENTATIVES, (4) PRODUCTS WHERE SERIAL NUMBERS HAVE BEEN REMOVED OR ALTERED, (5) PRODUCTS USED BY ANY PERSON OR ENTITY OTHER THAN CUSTOMER, OR (6) PRODUCTS THE INVOICE FOR WHICH HAS NOT BEEN PAID IN FULL IN ACCORDANCE WITH THE PAYMENT TERMS. NO ACTION BY CUSTOMER ARISING UNDER SECTION 7.A ABOVE OR OTHERWISE IN CONNECTION WITH THE SALE OF THE PRODUCTS MAY BE BROUGHT MORE THAN ONE (1) YEAR AFTER THE CAUSE OF ACTION FIRST ARISES.

D. DISCLAIMER. THE EXPRESS WARRANTIES OF CHIRAL STATED IN SECTION 7.A ABOVE ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS. THE EXPRESS OBLIGATIONS OF CHIRAL STATED IN SECTION 7.A ABOVE ARE IN LIEU OF ANY OTHER LIABILITY OR OBLIGATION OF CHIRAL, INCLUDING, WITHOUT LIMITATION, ANY LIABILITY OR OBLIGATION FOR DAMAGE, LOSS OR INJURY (WHETHER DIRECT, INDIRECT, EXEMPLARY, SPECIAL, CONSEQUENTIAL OR INCIDENTAL) ARISING OUT OF OR IN CONNECTION WITH THE DELIVERY, USE OR PERFORMANCE OF THE PRODUCTS.

SECTION 8. LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THESE TERMS AND CONDITIONS: CHIRAL SHALL NOT BE LIABLE FOR ANY EXEMPLARY, SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND (INCLUDING, WITHOUT LIMITATION, LOST PROFITS), EVEN IF CHIRAL HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING STATES THE ENTIRE LIABILITY OF CHIRAL WITH REGARD TO THESE TERMS AND CONDITIONS AND THE PRODUCTS. THE LIMITATIONS OF LIABILITY CONTAINED IN SECTION 7 AND THIS SECTION 8 ARE A FUNDAMENTAL PART OF THE BASIS OF CHIRAL'S BARGAIN HEREUNDER, AND CHIRAL WOULD NOT SELL THE PRODUCTS ABSENT SUCH LIMITATIONS.

SECTION 9. GENERAL.

A. ENTIRE AGREEMENT. These Terms and Conditions constitute the final, complete and exclusive agreement between the Parties relating to the subject matter hereof, and supersede all prior or contemporaneous proposals, understandings, representations, warranties, promises and other communications, whether oral or written, relating to such subject matter (including, without limitation, any prior "Standard Terms and Conditions" published by CHIRAL). Except for agreements of the Parties set forth in writing and signed by an authorized representative of CHIRAL relating to the type, quantity, quality/specifications, delivery, forecasting schedule and pricing of any Product, any term or condition in any purchase order, confirmation or other document furnished by CUSTOMER at any time which is in any way inconsistent with or in addition to the terms and conditions set forth herein is hereby expressly rejected, and CHIRAL's acceptance of any purchase order of CUSTOMER is expressly made in reliance on CUSTOMER'S assent to all terms and conditions hereof. No deviation from these Terms and Conditions shall be valid unless confirmed in writing by an authorized representative of CHIRAL.

B. GOVERNING LAW. These Terms and Conditions shall for all purposes be governed by and interpreted in accordance with the laws of the State of Pennsylvania without regard to any choice of law provision that would result in the application of the laws of any jurisdiction other than the internal laws of the State of Pennsylvania to these Terms and Conditions. The Parties expressly exclude application of the United Nations Convention on Contracts for the International Sale of Goods.

C. ARBITRATION. If a dispute arises related to the purchase and sale of the Products and the Parties have not resolved such dispute through negotiation, the Parties agree to submit the dispute to arbitration. Any arbitration proceeding relating to the Agreement shall be presided over by one arbitrator who shall be agreed to by the Parties, provided that if the Parties are unable to agree on an arbitrator, then each Party shall name one arbitrator and the two arbitrators will together designate a third arbitrator, and the three arbitrators so chosen shall preside over the arbitration proceeding. The arbitration shall be held in Pennsylvania in accordance with the rules of the American Arbitration Association. Arbitration proceedings shall be conducted in the English language. Each Party agrees that the final determination/decision of the arbitrators presiding over the proceeding shall be binding on it. Notwithstanding the foregoing, the Parties may apply to any court of competent jurisdiction for preliminary or interim equitable relief, without breach of this arbitration provision. The prevailing Party in any dispute related hereto, whether in a court of law or in arbitration, shall have its reasonable costs and expenses related to such dispute reimbursed by the non-prevailing Party.

D. SEVERABILITY. If any provision of these Terms and Conditions is held by a court of competent jurisdiction to be unenforceable for any reason, the remaining provisions hereof shall be unaffected and remain in full force and effect.

E. MODIFICATIONS. Neither Party may modify, amend, supplement or otherwise change these Terms and Conditions without the prior written consent of the other Party. Any such future modification, amendment, supplement or other change (a "Change") shall apply only with respect to orders accepted after the effective date of such Change. All waivers must be in writing.

F. ASSIGNMENTS. No right of either Party under these Terms and Conditions shall be assigned or otherwise transferred without the prior express written consent of the other Party, and any attempt to assign or otherwise transfer any rights hereunder, without such consent, shall be void. Subject to the preceding sentence, these Terms and Conditions shall bind the Parties hereto and their permitted successors and assigns.

G. MISCELLANEOUS. These Terms and Conditions are not intended to provide any rights or remedies to any person or entity other than CHIRAL and CUSTOMER and their respective permitted successors and assigns (if any).

H. FORCE MAJEURE. CHIRAL shall not be responsible for any failure to fulfill its obligations hereunder due to causes beyond its reasonable control, including, without limitation, as a result of fire, explosion, earthquake, storm, flood or other weather, unavailability of necessary utilities or raw materials, strike, lockout, unavailability of components, activities of a combination of workmen or other labor difficulties, war, insurrection, riot, act of God or the public enemy, law, act, order, omission, export control regulation, proclamation, decree, regulation, ordinance, or instructions of Government or other public authorities, or judgment or decree of a court of competent jurisdiction. If any such contingency occurs, CHIRAL may elect to either (a) suspend its obligations for the duration of the delaying cause, or (b) extend the time period to complete its obligations by the length of time the contingency endures. In the event of CHIRAL's inability to supply any or all of the Products due to any of the above circumstances, CHIRAL will have the right to allocate its available supply among its CUSTOMERS, or any of them, as CHIRAL, in its sole discretion, elects without liability to CUSTOMER for any failure of performance that may result therefrom. To the extent that no allocation is made to CUSTOMER, either CUSTOMER or CHIRAL will have the right to terminate any affected purchase orders by prompt written notice to the other.

I. CONSTRUCTION AND SURVIVAL. Notwithstanding anything to the contrary contained in herein, these Terms and Conditions shall survive the purchase and sale of the Products hereunder.

DAICEL

Chiral Technologies

Chiral Technologies, Inc.

1475 Dunwoody Drive, Suite 310

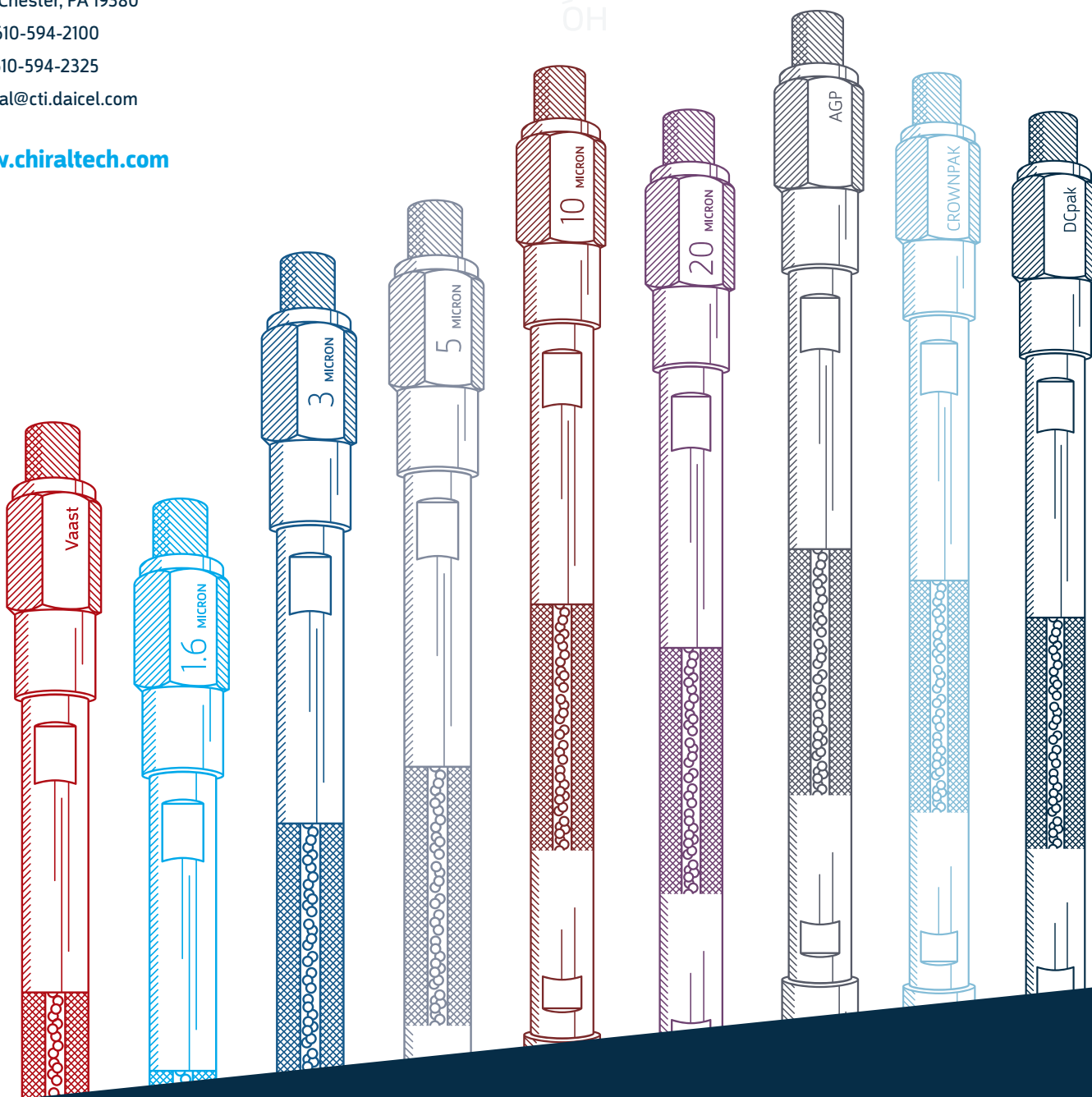
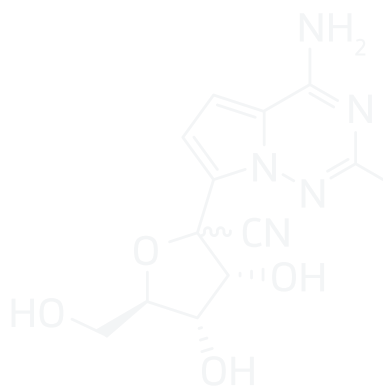
West Chester, PA 19380

T +1-610-594-2100

F +1-610-594-2325

E chiral@cti.daicel.com

www.chiraltech.com



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