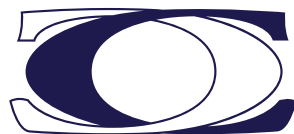
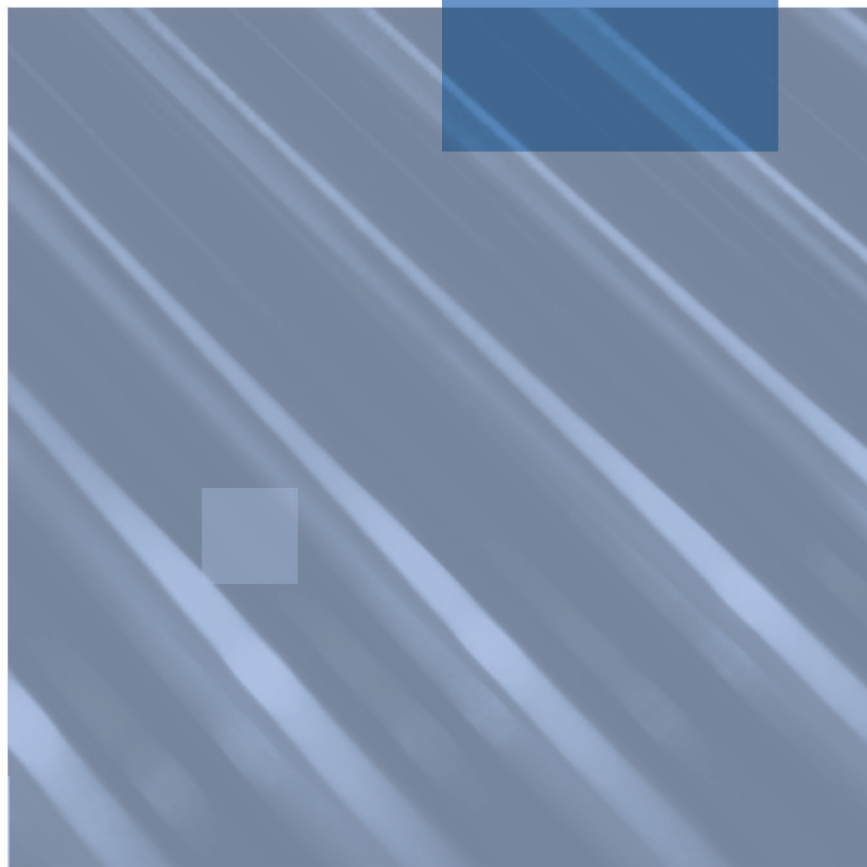


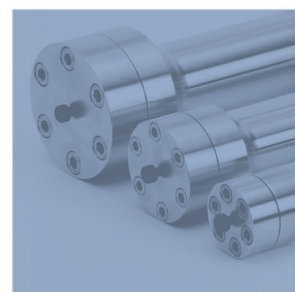
Price List
Columns and Accessories

2014



CHIRAL
TECHNOLOGIES INC
DAICEL GROUP

www.chiraltech.com



2014 Price List

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
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IMMOBILIZED POLYSACCHARIDE CSPs AND COLUMNS*

IMMOBILIZED CHIRALPAK® IA

80020	CHIRALPAK IA	20	1 kg	–	Bulk CSP	Call
80225	CHIRALPAK IA	20	4.6	250	Method Development	1,895
80233	CHIRALPAK IA	20	10	100	SMB (set of 8)	15,130
80235	CHIRALPAK IA	20	10	250	Semi-Prep	3,040
80242	CHIRALPAK IA	20	21	50	Semi-Prep Guard	2,275
80245	CHIRALPAK IA	20	21	250	Semi-Prep	6,455
80255	CHIRALPAK IA	20	50	250	Semi-Prep	22,530
80256	CHIRALPAK IA	20	50	500	Preparative	34,045
80266	CHIRALPAK IA	20	100	500	Preparative	81,395
80275	CHIRALPAK IA	20	30	250	Semi-Prep	9,555
80935	CHIRALPAK IA	20	10	250	SFC Semi-Prep	3,040
80945	CHIRALPAK IA	20	21	250	SFC Semi-Prep	6,455
80955	CHIRALPAK IA	20	50	250	SFC Semi-Prep	22,530
80975	CHIRALPAK IA	20	30	250	SFC Semi-Prep	9,555
80311	CHIRALPAK IA	5	4.0	10	Guard Cartridges	330
80324	CHIRALPAK IA	5	4.6	150	Analytical	1,720
80325	CHIRALPAK IA	5	4.6	250	Analytical	1,895
80335	CHIRALPAK IA	5	10	250	Semi-Prep	5,965
80337	CHIRALPAK IA	5	10	20	Semi-Prep Guard	2,695
80345	CHIRALPAK IA	5	20	250	Semi-Prep	13,760
80375	CHIRALPAK IA	5	30	250	Semi-Prep	22,930
80394	CHIRALPAK IA	5	2.1	150	Analytical	1,555
80422	CHIRALPAK IA	5	4.6	50	SFC Guard	1,030
80423	CHIRALPAK IA	5	4.6	100	SFC Screening Column	1,145
80435	CHIRALPAK IA	5	10	250	SFC Semi-Prep	5,965
80445	CHIRALPAK IA	5	21	250	SFC Semi-Prep	13,760
80455	CHIRALPAK IA	5	50	250	SFC Preparative	54,075
80475	CHIRALPAK IA	5	30	250	SFC Semi-Prep	22,930

IMMOBILIZED CHIRALPAK® IA-3

80511	CHIRALPAK IA-3	3	4.0	10	Guard Cartridges	390
80522	CHIRALPAK IA-3	3	4.6	50	Analytical	980
80523	CHIRALPAK IA-3	3	4.6	100	Analytical	1,530
80524	CHIRALPAK IA-3	3	4.6	150	Analytical	2,030
80525	CHIRALPAK IA-3	3	4.6	250	Analytical	2,165
80592	CHIRALPAK IA-3	3	2.1	50	Analytical	980
80593	CHIRALPAK IA-3	3	2.1	100	Analytical	1,530
80594	CHIRALPAK IA-3	3	2.1	150	Analytical	2,030
80595	CHIRALPAK IA-3	3	2.1	250	Analytical	2,165

IMMOBILIZED CHIRALPAK® IB

81311	CHIRALPAK IB	5	4.0	10	Guard Cartridges	330
81324	CHIRALPAK IB	5	4.6	150	Analytical	1,720
81325	CHIRALPAK IB	5	4.6	250	Analytical	1,895
81335	CHIRALPAK IB	5	10	250	Semi-Prep	5,965
81337	CHIRALPAK IB	5	10	20	Semi-Prep Guard	2,695
81345	CHIRALPAK IB	5	20	250	Semi-Prep	13,760

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
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81375	CHIRALPAK IB	5	30	250	Semi-Prep	22,930
81394	CHIRALPAK IB	5	2.1	150	Analytical	1,555
81422	CHIRALPAK IB	5	4.6	50	SFC Guard	1,030
81423	CHIRALPAK IB	5	4.6	100	SFC Screening Column	1,145
81435	CHIRALPAK IB	5	10	250	SFC Semi-Prep	5,965
81445	CHIRALPAK IB	5	21	250	SFC Semi-Prep	13,760
81455	CHIRALPAK IB	5	50	250	SFC Preparative	54,075
81475	CHIRALPAK IB	5	30	250	SFC Semi-Prep	22,930

IMMOBILIZED CHIRALPAK® IB-3

81511	CHIRALPAK IB-3	3	4.0	10	Guard Cartridges	390
81522	CHIRALPAK IB-3	3	4.6	50	Analytical	980
81523	CHIRALPAK IB-3	3	4.6	100	Analytical	1,530
81524	CHIRALPAK IB-3	3	4.6	150	Analytical	2,030
81525	CHIRALPAK IB-3	3	4.6	250	Analytical	2,165
81592	CHIRALPAK IB-3	3	2.1	50	Analytical	980
81593	CHIRALPAK IB-3	3	2.1	100	Analytical	1,530
81594	CHIRALPAK IB-3	3	2.1	150	Analytical	2,030
81595	CHIRALPAK IB-3	3	2.1	250	Analytical	2,165

IMMOBILIZED CHIRALCEL® OD-I

82020	CHIRALCEL OD-I	20	1 kg	–	Bulk CSP	Call
82225	CHIRALCEL OD-I	20	4.6	250	Method Development	1,895
82233	CHIRALCEL OD-I	20	10	100	SMB (set of 8)	15,130
82235	CHIRALCEL OD-I	20	10	250	Semi-Prep	3,040
82242	CHIRALCEL OD-I	20	21	50	Semi-Prep Guard	2,275
82245	CHIRALCEL OD-I	20	21	250	Semi-Prep	6,455
82255	CHIRALCEL OD-I	20	50	250	Semi-Prep	22,530
82256	CHIRALCEL OD-I	20	50	500	Preparative	34,045
82266	CHIRALCEL OD-I	20	100	500	Preparative	81,395
82275	CHIRALCEL OD-I	20	30	250	Semi-Prep	9,555
82935	CHIRALCEL OD-I	20	10	250	SFC Semi-Prep	3,040
82945	CHIRALCEL OD-I	20	21	250	SFC Semi-Prep	6,455
82955	CHIRALCEL OD-I	20	50	250	SFC Semi-Prep	22,530
82975	CHIRALCEL OD-I	20	30	250	SFC Semi-Prep	9,555

IMMOBILIZED CHIRALPAK® IC

83020	CHIRALPAK IC	20	1 kg	–	Bulk CSP	Call
83225	CHIRALPAK IC	20	4.6	250	Method Development	1,895
83233	CHIRALPAK IC	20	10	100	SMB (set of 8)	15,130
83235	CHIRALPAK IC	20	10	250	Semi-Prep	3,040
83242	CHIRALPAK IC	20	21	50	Semi-Prep Guard	2,275
83245	CHIRALPAK IC	20	21	250	Semi-Prep	6,455
83255	CHIRALPAK IC	20	50	250	Semi-Prep	22,530
83256	CHIRALPAK IC	20	50	500	Preparative	34,045
83266	CHIRALPAK IC	20	100	500	Preparative	81,395
83275	CHIRALPAK IC	20	30	250	Semi-Prep	9,555
83935	CHIRALPAK IC	20	10	250	SFC Semi-Prep	3,040
83945	CHIRALPAK IC	20	21	250	SFC Semi-Prep	6,455
83955	CHIRALPAK IC	20	50	250	SFC Semi-Prep	22,530

*Immobilized polysaccharide columns are compatible for use in either normal or reverse phase chromatographic conditions.

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
83975	CHIRALPAK IC	20	30	250	SFC Semi-Prep	9,555
83311	CHIRALPAK IC	5	4.0	10	Guard Cartridges	330
83324	CHIRALPAK IC	5	4.6	150	Analytical	1,720
83325	CHIRALPAK IC	5	4.6	250	Analytical	1,895
83335	CHIRALPAK IC	5	10	250	Semi-Prep	5,965
83337	CHIRALPAK IC	5	10	20	Semi-Prep Guard	2,695
83345	CHIRALPAK IC	5	20	250	Semi-Prep	13,760
83375	CHIRALPAK IC	5	30	250	Semi-Prep	22,930
83394	CHIRALPAK IC	5	2.1	150	Analytical	1,555
83422	CHIRALPAK IC	5	4.6	50	SFC Guard	1,030
83423	CHIRALPAK IC	5	4.6	100	SFC Screening Column	1,145
83435	CHIRALPAK IC	5	10	250	SFC Semi-Prep	5,965
83445	CHIRALPAK IC	5	21	250	SFC Semi-Prep	13,760
83455	CHIRALPAK IC	5	50	250	SFC Preparative	54,075
83475	CHIRALPAK IC	5	30	250	SFC Semi-Prep	22,930

IMMOBILIZED CHIRALPAK® IC-3

83511	CHIRALPAK IC-3	3	4.0	10	Guard Cartridges	390
83522	CHIRALPAK IC-3	3	4.6	50	Analytical	980
83523	CHIRALPAK IC-3	3	4.6	100	Analytical	1,530
83524	CHIRALPAK IC-3	3	4.6	150	Analytical	2,030
83525	CHIRALPAK IC-3	3	4.6	250	Analytical	2,165
83592	CHIRALPAK IC-3	3	2.1	50	Analytical	980
83593	CHIRALPAK IC-3	3	2.1	100	Analytical	1,530
83594	CHIRALPAK IC-3	3	2.1	150	Analytical	2,030
83595	CHIRALPAK IC-3	3	2.1	250	Analytical	2,165

CHIRALPAK® ID

84020	CHIRALPAK ID	20	1 kg	–	Bulk CSP	Call
84225	CHIRALPAK ID	20	4.6	250	Method Development	1,895
84233	CHIRALPAK ID	20	10	100	SMB (set of 8)	15,130
84235	CHIRALPAK ID	20	10	250	Semi-Prep	3,040
84242	CHIRALPAK ID	20	21	50	Semi-Prep Guard	2,275
84245	CHIRALPAK ID	20	21	250	Semi-Prep	6,455
84255	CHIRALPAK ID	20	50	250	Semi-Prep	22,530
84256	CHIRALPAK ID	20	50	500	Preparative	34,045
84266	CHIRALPAK ID	20	100	500	Preparative	81,395
84275	CHIRALPAK ID	20	30	250	Semi-Prep	9,555
84935	CHIRALPAK ID	20	10	250	SFC Semi-Prep	3,040
84945	CHIRALPAK ID	20	21	250	SFC Semi-Prep	6,455
84955	CHIRALPAK ID	20	50	250	SFC Semi-Prep	22,530
84975	CHIRALPAK ID	20	30	250	SFC Semi-Prep	9,555
84311	CHIRALPAK ID	5	4.0	10	Guard Cartridges	330
84324	CHIRALPAK ID	5	4.6	150	Analytical	1,720
84325	CHIRALPAK ID	5	4.6	250	Analytical	1,895
84335	CHIRALPAK ID	5	10	250	Semi-Prep	5,965
84337	CHIRALPAK ID	5	10	20	Semi-Prep Guard	2,695
84345	CHIRALPAK ID	5	20	250	Semi-Prep	13,760
84375	CHIRALPAK ID	5	30	250	Semi-Prep	22,930
84394	CHIRALPAK ID	5	2.1	150	Analytical	1,555
84422	CHIRALPAK ID	5	4.6	50	SFC Guard	1,030

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
84423	CHIRALPAK ID	5	4.6	100	SFC Screening Column	1,145
84435	CHIRALPAK ID	5	10	250	SFC Semi-Prep	5,965
84445	CHIRALPAK ID	5	21	250	SFC Semi-Prep	13,760
84455	CHIRALPAK ID	5	50	250	SFC Preparative	54,075
84475	CHIRALPAK ID	5	30	250	SFC Semi-Prep	22,930

CHIRALPAK® ID-3

84511	CHIRALPAK ID-3	3	4.0	10	Guard Cartridges	390
84522	CHIRALPAK ID-3	3	4.6	50	Analytical	980
84523	CHIRALPAK ID-3	3	4.6	100	Analytical	1,530
84524	CHIRALPAK ID-3	3	4.6	150	Analytical	2,030
84525	CHIRALPAK ID-3	3	4.6	250	Analytical	2,165
84592	CHIRALPAK ID-3	3	2.1	50	Analytical	980
84593	CHIRALPAK ID-3	3	2.1	100	Analytical	1,530
84594	CHIRALPAK ID-3	3	2.1	150	Analytical	2,030
84595	CHIRALPAK ID-3	3	2.1	250	Analytical	2,165

CHIRALPAK® IE

85020	CHIRALPAK IE	20	1 kg	–	Bulk CSP	Call
85225	CHIRALPAK IE	20	4.6	250	Method Development	1,895
85233	CHIRALPAK IE	20	10	100	SMB (set of 8)	15,130
85235	CHIRALPAK IE	20	10	250	Semi-Prep	3,040
85242	CHIRALPAK IE	20	21	50	Semi-Prep Guard	2,275
85245	CHIRALPAK IE	20	21	250	Semi-Prep	6,455
85255	CHIRALPAK IE	20	50	250	Semi-Prep	22,530
85256	CHIRALPAK IE	20	50	500	Preparative	34,045
85266	CHIRALPAK IE	20	100	500	Preparative	81,395
85275	CHIRALPAK IE	20	30	250	Semi-Prep	9,555
85935	CHIRALPAK IE	20	10	250	SFC Semi-Prep	3,040
85945	CHIRALPAK IE	20	21	250	SFC Semi-Prep	6,455
85955	CHIRALPAK IE	20	50	250	SFC Semi-Prep	22,530
85975	CHIRALPAK IE	20	30	250	SFC Semi-Prep	9,555
85311	CHIRALPAK IE	5	4.0	10	Guard Cartridges	330
85324	CHIRALPAK IE	5	4.6	150	Analytical	1,720
85325	CHIRALPAK IE	5	4.6	250	Analytical	1,895
85335	CHIRALPAK IE	5	10	250	Semi-Prep	5,965
85337	CHIRALPAK IE	5	10	20	Semi-Prep Guard	2,695
85345	CHIRALPAK IE	5	20	250	Semi-Prep	13,760
85375	CHIRALPAK IE	5	30	250	Semi-Prep	22,930
85394	CHIRALPAK IE	5	2.1	150	Analytical	1,555
85422	CHIRALPAK IE	5	4.6	50	SFC Guard	1,030
85423	CHIRALPAK IE	5	4.6	100	SFC Screening Column	1,145
85435	CHIRALPAK IE	5	10	250	SFC Semi-Prep	5,965
85445	CHIRALPAK IE	5	21	250	SFC Semi-Prep	13,760
85455	CHIRALPAK IE	5	50	250	SFC Preparative	54,075
85475	CHIRALPAK IE	5	30	250	SFC Semi-Prep	22,930

2014 Price List

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® IE-3						
85511	CHIRALPAK IE-3	3	4.0	10	Guard Cartridges	390
85522	CHIRALPAK IE-3	3	4.6	50	Analytical	980
85523	CHIRALPAK IE-3	3	4.6	100	Analytical	1,530
85524	CHIRALPAK IE-3	3	4.6	150	Analytical	2,030
85525	CHIRALPAK IE-3	3	4.6	250	Analytical	2,165
85592	CHIRALPAK IE-3	3	2.1	50	Analytical	980
85593	CHIRALPAK IE-3	3	2.1	100	Analytical	1,530
85594	CHIRALPAK IE-3	3	2.1	150	Analytical	2,030
85595	CHIRALPAK IE-3	3	2.1	250	Analytical	2,165

CHIRALPAK® IF

86020	CHIRALPAK IF	20	1 kg	–	Bulk CSP	Call
86225	CHIRALPAK IF	20	4.6	250	Method Development	1,895
86233	CHIRALPAK IF	20	10	100	SMB (set of 8)	15,130
86235	CHIRALPAK IF	20	10	250	Semi-Prep	3,040
86242	CHIRALPAK IF	20	21	50	Semi-Prep Guard	2,275
86245	CHIRALPAK IF	20	21	250	Semi-Prep	6,455
86255	CHIRALPAK IF	20	50	250	Semi-Prep	22,530
86256	CHIRALPAK IF	20	50	500	Preparative	34,045
86266	CHIRALPAK IF	20	100	500	Preparative	81,395
86275	CHIRALPAK IF	20	30	250	Semi-Prep	9,555
86935	CHIRALPAK IF	20	10	250	SFC Semi-Prep	3,040
86945	CHIRALPAK IF	20	21	250	SFC Semi-Prep	6,455
86955	CHIRALPAK IF	20	50	250	SFC Semi-Prep	22,530
86975	CHIRALPAK IF	20	30	250	SFC Semi-Prep	9,555
86311	CHIRALPAK IF	5	4	10	Guard Cartridges	330
86324	CHIRALPAK IF	5	4.6	150	Analytical	1,720
86325	CHIRALPAK IF	5	4.6	250	Analytical	1,895
86335	CHIRALPAK IF	5	10	250	Semi-Prep	5,965
86337	CHIRALPAK IF	5	10	20	Semi-Prep Guard	2,695
86345	CHIRALPAK IF	5	20	250	Semi-Prep	13,760
86375	CHIRALPAK IF	5	30	250	Semi-Prep	22,930
86394	CHIRALPAK IF	5	2.1	150	Analytical	1,555
86422	CHIRALPAK IF	5	4.6	50	SFC Guard	1,030
86423	CHIRALPAK IF	5	4.6	100	SFC Screening Column	1,145
86435	CHIRALPAK IF	5	10	250	SFC Semi-Prep	5,965
86445	CHIRALPAK IF	5	21	250	SFC Semi-Prep	13,760
86455	CHIRALPAK IF	5	50	250	SFC Preparative	54,075
86475	CHIRALPAK IF	5	30	250	SFC Semi-Prep	22,930

CHIRALPAK® IF-3

86511	CHIRALPAK IF-3	3	4.0	10	Guard Cartridges	390
86522	CHIRALPAK IF-3	3	4.6	50	Analytical	980
86523	CHIRALPAK IF-3	3	4.6	100	Analytical	1,530
86524	CHIRALPAK IF-3	3	4.6	150	Analytical	2,030
86525	CHIRALPAK IF-3	3	4.6	250	Analytical	2,165
86592	CHIRALPAK IF-3	3	2.1	50	Analytical	980
86593	CHIRALPAK IF-3	3	2.1	100	Analytical	1,530
86594	CHIRALPAK IF-3	3	2.1	150	Analytical	2,030
86595	CHIRALPAK IF-3	3	2.1	250	Analytical	2,165

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
IMMOBILIZED COLUMNS FOR MPLC (FLASH)						
80223	CHIRALPAK IA	20	4.6	100	Analytical	1,285
83223	CHIRALPAK IC	20	4.6	100	Analytical	1,285
84223	CHIRALPAK ID	20	4.6	100	Analytical	1,285
86223	CHIRALPAK IF	20	4.6	100	Analytical	1,285
80M73	CHIRALFLASH® IA	20	30	100	Preparative	3,875
83M73	CHIRALFLASH IC	20	30	100	Preparative	3,875
84M73	CHIRALFLASH ID	20	30	100	Preparative	3,875
86M73	CHIRALFLASH IF	20	30	100	Preparative	3,875

IMMOBILIZED ZWITTERIONIC COLUMNS

CHIRALPAK® ZWIX(+)

51514	CHIRALPAK ZWIX(+)	3	4.0	150	Analytical	1,870
51515	CHIRALPAK ZWIX(+)	3	4.0	250	Analytical	1,870
51584	CHIRALPAK ZWIX(+)	3	3.0	150	Analytical	1,870
51585	CHIRALPAK ZWIX(+)	3	3.0	250	Analytical	1,870

CHIRALPAK® ZWIX(-)

52514	CHIRALPAK ZWIX(-)	3	4.0	150	Analytical	1,870
52515	CHIRALPAK ZWIX(-)	3	4.0	250	Analytical	1,870
52584	CHIRALPAK ZWIX(-)	3	3.0	150	Analytical	1,870
52585	CHIRALPAK ZWIX(-)	3	3.0	250	Analytical	1,870

IMMOBILIZED CROWN ETHER COLUMNS*

CROWNPAK® CR-I

53784	CROWNPAK CR-I(+)	5	3.0	150	Analytical	1,870
54784	CROWNPAK CR-I(-)	5	3.0	150	Analytical	1,870

IMMOBILIZED PROTEIN-BASED COLUMNS

CHIRALPAK® AGP

30711	CHIRALPAK AGP (2-pkg)	5	4.0	10	Guard Cartridges	410
30712	CHIRALPAK AGP	5	4.0	50	Analytical	1,325
30713	CHIRALPAK AGP	5	4.0	100	Analytical	1,665
30714	CHIRALPAK AGP	5	4.0	150	Analytical	2,090
30733	CHIRALPAK AGP	5	10.0	100	Semi-Prep	7,790
30734	CHIRALPAK AGP	5	10.0	150	Semi-Prep	11,680
30781	CHIRALPAK AGP (2-pkg)	5	3.0	10	Guard Cartridges	350
30782	CHIRALPAK AGP	5	3.0	50	Analytical	1,325
30783	CHIRALPAK AGP	5	3.0	100	Analytical	1,665
30784	CHIRALPAK AGP	5	3.0	150	Analytical	2,090
30791	CHIRALPAK AGP (2-pkg)	5	2.0	10	Guard Cartridges	350
30792	CHIRALPAK AGP	5	2.0	50	Analytical	1,450
30793	CHIRALPAK AGP	5	2.0	100	Analytical	1,855
30794	CHIRALPAK AGP	5	2.0	150	Analytical	2,295

*CROWNPAK CR-I(+) available February 2014
CROWNPAK CR-I(-) available April 2014

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
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CHIRALPAK® CBH

33711	CHIRALPAK CBH (2-pkg)	5	4.0	10	Guard Cartridges	410
33712	CHIRALPAK CBH	5	4.0	50	Analytical	1,325
33713	CHIRALPAK CBH	5	4.0	100	Analytical	1,665
33714	CHIRALPAK CBH	5	4.0	150	Analytical	2,090
33733	CHIRALPAK CBH	5	10.0	100	Semi-Prep	7,790
33734	CHIRALPAK CBH	5	10.0	150	Semi-Prep	11,680
33781	CHIRALPAK CBH (2-pkg)	5	3.0	10	Guard Cartridges	350
33782	CHIRALPAK CBH	5	3.0	50	Analytical	1,325
33783	CHIRALPAK CBH	5	3.0	100	Analytical	1,665
33784	CHIRALPAK CBH	5	3.0	150	Analytical	2,090
33791	CHIRALPAK CBH (2-pkg)	5	2.0	10	Guard Cartridges	350
33792	CHIRALPAK CBH	5	2.0	50	Analytical	1,450
33793	CHIRALPAK CBH	5	2.0	100	Analytical	1,855
33794	CHIRALPAK CBH	5	2.0	150	Analytical	2,295

CHIRALPAK® HSA

34711	CHIRALPAK HSA (2-pkg)	5	4.0	10	Guard Cartridges	365
34712	CHIRALPAK HSA	5	4.0	50	Analytical	1,220
34713	CHIRALPAK HSA	5	4.0	100	Analytical	1,475
34714	CHIRALPAK HSA	5	4.0	150	Analytical	1,830
34733	CHIRALPAK HSA	5	10.0	100	Semi-Prep	6,580
34734	CHIRALPAK HSA	5	10.0	150	Semi-Prep	11,015
34781	CHIRALPAK HSA (2-pkg)	5	3.0	10	Guard Cartridges	300
34782	CHIRALPAK HSA	5	3.0	50	Analytical	1,220
34783	CHIRALPAK HSA	5	3.0	100	Analytical	1,475
34784	CHIRALPAK HSA	5	3.0	150	Analytical	1,830
34791	CHIRALPAK HSA (2-pkg)	5	2.0	10	Guard Cartridges	300
34792	CHIRALPAK HSA	5	2.0	50	Analytical	1,355
34793	CHIRALPAK HSA	5	2.0	100	Analytical	1,625
34794	CHIRALPAK HSA	5	2.0	150	Analytical	1,945

CHIRALPAK® BSA

35711	CHIRALPAK BSA (2-pkg)	5	4.0	10	Guard Cartridges	Call
35712	CHIRALPAK BSA	5	4.0	50	Analytical	Call
35714	CHIRALPAK BSA	5	4.0	150	Analytical	Call
35781	CHIRALPAK BSA (2-pkg)	5	3.0	10	Guard Cartridges	Call
35782	CHIRALPAK BSA	5	3.0	50	Analytical	Call
35791	CHIRALPAK BSA (2-pkg)	5	2.0	10	Guard Cartridges	Call
35792	CHIRALPAK BSA	5	2.0	50	Analytical	Call

CHIRALPAK® DSA

36711	CHIRALPAK DSA (2-pkg)	5	4.0	10	Guard Cartridges	Call
36712	CHIRALPAK DSA	5	4.0	50	Analytical	Call
36714	CHIRALPAK DSA	5	4.0	150	Analytical	Call
36781	CHIRALPAK DSA (2-pkg)	5	3.0	10	Guard Cartridges	Call
36782	CHIRALPAK DSA	5	3.0	50	Analytical	Call

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
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36791	CHIRALPAK DSA (2-pkg)	5	2.0	10	Guard Cartridges	Call
36792	CHIRALPAK DSA	5	2.0	50	Analytical	Call

CHIRALPAK® MSA

37712	CHIRALPAK MSA	5	4.0	50	Analytical	Call
37782	CHIRALPAK MSA	5	3.0	50	Analytical	Call

CHIRALPAK® RSA

38711	CHIRALPAK RSA (2-pkg)	5	4.0	10	Guard Cartridges	Call
38712	CHIRALPAK RSA	5	4.0	50	Analytical	Call
38714	CHIRALPAK RSA	5	4.0	150	Analytical	Call
38781	CHIRALPAK RSA (2-pkg)	5	3.0	10	Guard Cartridges	Call
38782	CHIRALPAK RSA	5	3.0	50	Analytical	Call
38791	CHIRALPAK RSA (2-pkg)	5	2.0	10	Guard Cartridges	Call
38792	CHIRALPAK RSA	5	2.0	50	Analytical	Call

PROTEIN-BASED COLUMN ACCESSORIES

00081	Guard Column Holder		Holder	170
000D1	Guard Column Coupler		Coupler	85
000D2	Micro Guard Column Coupler		Coupler	105
000D3	Column Fittings (5-pkg)		Fittings	55

COATED POLYSACCHARIDE CSPs AND COLUMNS

CHIRALCEL® OB

12022	CHIRALCEL OB	10	4.6	50	Guard Column	530
12025	CHIRALCEL OB	10	4.6	250	Analytical	1,750

CHIRALCEL® OB-H

12311	CHIRALCEL OB-H	5	4.0	10	Guard Cartridges	320
12324	CHIRALCEL OB-H	5	4.6	150	Analytical	1,590
12325	CHIRALCEL OB-H	5	4.6	250	Analytical	1,750

CHIRALCEL® OC

13022	CHIRALCEL OC	10	4.6	50	Guard Column	530
13025	CHIRALCEL OC	10	4.6	250	Analytical	1,750

CHIRALCEL® OC-H

13311	CHIRALCEL OC-H	5	4.6	10	Guard Cartridges	320
13325	CHIRALCEL OC-H	5	4.6	250	Analytical	1,750

CHIRALCEL® OD

14020	CHIRALCEL OD	20	1 kg	–	Bulk CSP	Call
14022	CHIRALCEL OD	10	4.6	50	Guard Column	530
14025	CHIRALCEL OD	10	4.6	250	Analytical	1,750
14035	CHIRALCEL OD	10	10	250	Semi-Prep	5,510
14045	CHIRALCEL OD	10	20	250	Semi-Prep	12,720
14225	CHIRALCEL OD	20	4.6	250	Method Development	1,750
14233	CHIRALCEL OD	20	10	100	SMB (set of 8)	13,990
14235	CHIRALCEL OD	20	10	250	Semi-Prep	2,780
14242	CHIRALCEL OD	20	21	50	Semi-Prep Guard	2,100

2014 Price List

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
14245	CHIRALCEL OD	20	21	250	Semi-Prep	5,980
14255	CHIRALCEL OD	20	50	250	Semi-Prep	20,820
14256	CHIRALCEL OD	20	50	500	Preparative	32,425
14266	CHIRALCEL OD	20	100	500	Preparative	77,520
14275	CHIRALCEL OD	20	30	250	Semi-Prep	8,750
14935	CHIRALCEL OD	20	10	250	SFC Semi-Prep	2,780
14945	CHIRALCEL OD	20	21	250	SFC Semi-Prep	5,980
14955	CHIRALCEL OD	20	50	250	SFC Semi-Prep	20,820
14975	CHIRALCEL OD	20	30	250	SFC Semi-Prep	8,750

CHIRALCEL® OD-H

14311	CHIRALCEL OD-H	5	4.0	10	Guard Cartridges	320
14324	CHIRALCEL OD-H	5	4.6	150	Analytical	1,590
14325	CHIRALCEL OD-H	5	4.6	250	Analytical	1,750
14335	CHIRALCEL OD-H	5	10	250	Semi-Prep	5,510
14345	CHIRALCEL OD-H	5	20	250	Semi-Prep	12,720
14375	CHIRALCEL OD-H	5	30	250	Semi-Prep	21,840
14394	CHIRALCEL OD-H	5	2.1	150	Analytical	1,510
14422	CHIRALCEL OD-H	5	4.6	50	SFC Guard	950
14423	CHIRALCEL OD-H	5	4.6	100	SFC Screening Column	1,055
14435	CHIRALCEL OD-H	5	10	250	SFC Semi-Prep	5,510
14445	CHIRALCEL OD-H	5	21	250	SFC Semi-Prep	12,720
14455	CHIRALCEL OD-H	5	50	250	SFC Preparative	52,500
14475	CHIRALCEL OD-H	5	30	250	SFC Semi-Prep	21,840

CHIRALCEL® OD-3

14511	CHIRALCEL OD-3	3	4.0	10	Guard Cartridges	380
14522	CHIRALCEL OD-3	3	4.6	50	Analytical	950
14523	CHIRALCEL OD-3	3	4.6	100	Analytical	1,485
14524	CHIRALCEL OD-3	3	4.6	150	Analytical	1,970
14525	CHIRALCEL OD-3	3	4.6	250	Analytical	2,100
14592	CHIRALCEL OD-3	3	2.1	50	Analytical	950
14593	CHIRALCEL OD-3	3	2.1	100	Analytical	1,485
14594	CHIRALCEL OD-3	3	2.1	150	Analytical	1,970
14595	CHIRALCEL OD-3	3	2.1	250	Analytical	2,100

CHIRALCEL® OD-R

14625	CHIRALCEL OD-R	10	4.6	250	Analytical	1,750
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CHIRALCEL® OD-RH

14711	CHIRALCEL OD-RH	5	4.0	10	Guard Cartridges	320
14724	CHIRALCEL OD-RH	5	4.6	150	Analytical	1,590
14745	CHIRALCEL OD-RH	5	21	250	Semi-Prep Rev Ph	12,720
14794	CHIRALCEL OD-RH	5	2.1	150	Analytical	1,510

CHIRALCEL® OD-3R

14811	CHIRALCEL OD-3R	3	4.0	10	Guard Cartridges	380
14822	CHIRALCEL OD-3R	3	4.6	50	Analytical	950
14823	CHIRALCEL OD-3R	3	4.6	100	Analytical	1,485
14824	CHIRALCEL OD-3R	3	4.6	150	Analytical	1,970
14892	CHIRALCEL OD-3R	3	2.1	50	Analytical	950
14893	CHIRALCEL OD-3R	3	2.1	100	Analytical	1,485
14894	CHIRALCEL OD-3R	3	2.1	150	Analytical	1,970
14895	CHIRALCEL OD-3R	3	2.1	250	Analytical	2,100

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
15020	CHIRALCEL OF	20	1 kg	–	Bulk CSP	Call
15022	CHIRALCEL OF	10	4.6	50	Guard Column	530
15025	CHIRALCEL OF	10	4.6	250	Analytical	1,750
15135	CHIRALCEL OF	10	10	250	SFC Semi-Prep	5,510
15145	CHIRALCEL OF	10	21	250	SFC Semi-Prep	12,720
15175	CHIRALCEL OF	10	30	250	SFC Semi-Prep	21,840
15256	CHIRALCEL OF	20	50	500	Preparative	32,425
15266	CHIRALCEL OF	20	100	500	Preparative	77,520

CHIRALCEL® OG

16022	CHIRALCEL OG	10	4.6	50	Guard Column	530
16025	CHIRALCEL OG	10	4.6	250	Analytical	1,750
16135	CHIRALCEL OG	10	10	250	SFC Semi-Prep	5,510
16145	CHIRALCEL OG	10	21	250	SFC Semi-Prep	12,720
16175	CHIRALCEL OG	10	30	250	SFC Semi-Prep	21,840

CHIRALCEL® OJ

17020	CHIRALCEL OJ	20	1 kg	–	Bulk CSP	Call
17022	CHIRALCEL OJ	10	4.6	50	Guard Column	530
17025	CHIRALCEL OJ	10	4.6	250	Analytical	1,750
17035	CHIRALCEL OJ	10	10	250	Semi-Prep	5,510
17045	CHIRALCEL OJ	10	20	250	Semi-Prep	12,720
17225	CHIRALCEL OJ	20	4.6	250	Method Development	1,750
17233	CHIRALCEL OJ	20	10	100	SMB (set of 8)	13,990
17235	CHIRALCEL OJ	20	10	250	Semi-Prep	2,780
17242	CHIRALCEL OJ	20	21	50	Semi-Prep Guard	2,100
17245	CHIRALCEL OJ	20	21	250	Semi-Prep	5,980
17255	CHIRALCEL OJ	20	50	250	Semi-Prep	20,820
17256	CHIRALCEL OJ	20	50	500	Preparative	32,425
17266	CHIRALCEL OJ	20	100	500	Preparative	77,520
17275	CHIRALCEL OJ	20	30	250	Semi-Prep	8,750
17935	CHIRALCEL OJ	20	10	250	SFC Semi-Prep	2,780
17945	CHIRALCEL OJ	20	21	250	SFC Semi-Prep	5,980
17955	CHIRALCEL OJ	20	50	250	SFC Semi-Prep	20,820
17975	CHIRALCEL OJ	20	30	250	SFC Semi-Prep	8,750

CHIRALCEL® OJ-H

17311	CHIRALCEL OJ-H	5	4.0	10	Guard Cartridges	320
17324	CHIRALCEL OJ-H	5	4.6	150	Analytical	1,590
17325	CHIRALCEL OJ-H	5	4.6	250	Analytical	1,750
17335	CHIRALCEL OJ-H	5	10	250	Semi-Prep	5,510
17345	CHIRALCEL OJ-H	5	20	250	Semi-Prep	12,720
17375	CHIRALCEL OJ-H	5	30	250	Semi-Prep	21,840
17394	CHIRALCEL OJ-H	5	2.1	150	Analytical	1,510
17422	CHIRALCEL OJ-H	5	4.6	50	SFC Guard	950
17423	CHIRALCEL OJ-H	5	4.6	100	SFC Screening Column	1,055
17435	CHIRALCEL OJ-H	5	10	250	SFC Semi-Prep	5,510
17445	CHIRALCEL OJ-H	5	21	250	SFC Semi-Prep	12,720
17455	CHIRALCEL OJ-H	5	50	250	SFC Preparative	52,500
17475	CHIRALCEL OJ-H	5	30	250	SFC Semi-Prep	21,840

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALCEL® OJ-3						
17511	CHIRALCEL OJ-3	3	4.0	10	Guard Cartridges	380
17522	CHIRALCEL OJ-3	3	4.6	50	Analytical	950
17523	CHIRALCEL OJ-3	3	4.6	100	Analytical	1,485
17524	CHIRALCEL OJ-3	3	4.6	150	Analytical	1,970
17525	CHIRALCEL OJ-3	3	4.6	250	Analytical	2,100
17592	CHIRALCEL OJ-3	3	2.1	50	Analytical	950
17593	CHIRALCEL OJ-3	3	2.1	100	Analytical	1,485
17594	CHIRALCEL OJ-3	3	2.1	150	Analytical	1,970
17595	CHIRALCEL OJ-3	3	2.1	250	Analytical	2,100

CHIRALCEL® OJ-RH						
17711	CHIRALCEL OJ-RH	5	4.0	10	Guard Cartridges	320
17724	CHIRALCEL OJ-RH	5	4.6	150	Analytical	1,590
17745	CHIRALCEL OJ-RH	5	21	250	Semi-Prep Rev Ph	12,720
17794	CHIRALCEL OJ-RH	5	2.1	150	Analytical	1,510

CHIRALCEL® OJ-3R						
17811	CHIRALCEL OJ-3R	3	4.0	10	Guard Cartridges	380
17822	CHIRALCEL OJ-3R	3	4.6	50	Analytical	950
17823	CHIRALCEL OJ-3R	3	4.6	100	Analytical	1,485
17824	CHIRALCEL OJ-3R	3	4.6	150	Analytical	1,970
17892	CHIRALCEL OJ-3R	3	2.1	50	Analytical	950
17893	CHIRALCEL OJ-3R	3	2.1	100	Analytical	1,485
17894	CHIRALCEL OJ-3R	3	2.1	150	Analytical	1,970
17895	CHIRALCEL OJ-3R	3	2.1	250	Analytical	2,100

CHIRALCEL® OK						
18022	CHIRALCEL OK	10	4.6	50	Guard Column	530
18025	CHIRALCEL OK	10	4.6	250	Analytical	1,750

CHIRALCEL® OX-H						
63311	CHIRALCEL OX-H	5	4.0	10	Guard Cartridges	320
63324	CHIRALCEL OX-H	5	4.6	150	Analytical	1,590
63325	CHIRALCEL OX-H	5	4.6	250	Analytical	1,750
63335	CHIRALCEL OX-H	5	10	250	Semi-Prep	5,510
63345	CHIRALCEL OX-H	5	20	250	Semi-Prep	12,720
63375	CHIRALCEL OX-H	5	30	250	Semi-Prep	21,840
63394	CHIRALCEL OX-H	5	2.1	150	Analytical	1,510
63422	CHIRALCEL OX-H	5	4.6	50	SFC Guard	950
63423	CHIRALCEL OX-H	5	4.6	100	SFC Screening Column	1,055
63435	CHIRALCEL OX-H	5	10	250	SFC Semi-Prep	5,510
63445	CHIRALCEL OX-H	5	21	250	SFC Semi-Prep	12,720
63455	CHIRALCEL OX-H	5	50	250	SFC Preparative	52,500
63475	CHIRALCEL OX-H	5	30	250	SFC Semi-Prep	21,840

CHIRALCEL® OX-3						
63511	CHIRALCEL OX-3	3	4.0	10	Guard Cartridges	380
63522	CHIRALCEL OX-3	3	4.6	50	Analytical	950
63523	CHIRALCEL OX-3	3	4.6	100	Analytical	1,485
63524	CHIRALCEL OX-3	3	4.6	150	Analytical	1,970
63525	CHIRALCEL OX-3	3	4.6	250	Analytical	2,100

63592	CHIRALCEL OX-3	3	2.1	50	Analytical	950
63593	CHIRALCEL OX-3	3	2.1	100	Analytical	1,485
63594	CHIRALCEL OX-3	3	2.1	150	Analytical	1,970
63595	CHIRALCEL OX-3	3	2.1	250	Analytical	2,100

CHIRALCEL® OX-RH						
63711	CHIRALCEL OX-RH	5	4	10	Guard Cartridges	320
63724	CHIRALCEL OX-RH	5	4.6	150	Analytical	1,590
63745	CHIRALCEL OX-RH	5	21	250	Semi-Prep Rev Ph	12,720
63794	CHIRALCEL OX-RH	5	2.1	150	Analytical	1,510

CHIRALCEL® OX-3R						
63811	CHIRALCEL OX-3R	3	4.0	10	Guard Cartridges	380
63822	CHIRALCEL OX-3R	3	4.6	50	Analytical	950
63823	CHIRALCEL OX-3R	3	4.6	100	Analytical	1,485
63824	CHIRALCEL OX-3R	3	4.6	150	Analytical	1,970
63892	CHIRALCEL OX-3R	3	2.1	50	Analytical	950
63893	CHIRALCEL OX-3R	3	2.1	100	Analytical	1,485
63894	CHIRALCEL OX-3R	3	2.1	150	Analytical	1,970
63895	CHIRALCEL OX-3R	3	2.1	250	Analytical	2,100

CHIRALCEL® OZ						
42020	CHIRALCEL OZ	20	1 kg	–	Bulk CSP	Call
42225	CHIRALCEL OZ	20	4.6	250	Method Development	1,750
42233	CHIRALCEL OZ	20	10	100	SMB (set of 8)	13,990
42235	CHIRALCEL OZ	20	10	250	Semi-Prep	2,780
42242	CHIRALCEL OZ	20	21	50	Semi-Prep Guard	2,100
42245	CHIRALCEL OZ	20	21	250	Semi-Prep	5,980
42255	CHIRALCEL OZ	20	50	250	Semi-Prep	20,820
42256	CHIRALCEL OZ	20	50	500	Preparative	32,425
42266	CHIRALCEL OZ	20	100	500	Preparative	77,520
42275	CHIRALCEL OZ	20	30	250	Semi-Prep	8,750
42935	CHIRALCEL OZ	20	10	250	SFC Semi-Prep	2,780
42945	CHIRALCEL OZ	20	21	250	SFC Semi-Prep	5,980
42955	CHIRALCEL OZ	20	50	250	SFC Semi-Prep	20,820
42975	CHIRALCEL OZ	20	30	250	SFC Semi-Prep	8,750

CHIRALCEL® OZ-H						
42311	CHIRALCEL OZ-H	5	4.0	10	Guard Cartridges	320
42324	CHIRALCEL OZ-H	5	4.6	150	Analytical	1,590
42325	CHIRALCEL OZ-H	5	4.6	250	Analytical	1,750
42335	CHIRALCEL OZ-H	5	10	250	Semi-Prep	5,510
42345	CHIRALCEL OZ-H	5	20	250	Semi-Prep	12,720
42375	CHIRALCEL OZ-H	5	30	250	Semi-Prep	21,840
42394	CHIRALCEL OZ-H	5	2.1	150	Analytical	1,510
42422	CHIRALCEL OZ-H	5	4.6	50	SFC Guard	950
42423	CHIRALCEL OZ-H	5	4.6	100	SFC Screening Column	1,055
42435	CHIRALCEL OZ-H	5	10	250	SFC Semi-Prep	5,510
42445	CHIRALCEL OZ-H	5	21	250	SFC Semi-Prep	12,720
42455	CHIRALCEL OZ-H	5	50	250	SFC Preparative	52,500
42475	CHIRALCEL OZ-H	5	30	250	SFC Semi-Prep	21,840

2014 Price List

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALCEL® OZ-3						
42511	CHIRALCEL OZ-3	3	4.0	10	Guard Cartridges	380
42522	CHIRALCEL OZ-3	3	4.6	50	Analytical	950
42523	CHIRALCEL OZ-3	3	4.6	100	Analytical	1,485
42524	CHIRALCEL OZ-3	3	4.6	150	Analytical	1,970
42525	CHIRALCEL OZ-3	3	4.6	250	Analytical	2,100
42592	CHIRALCEL OZ-3	3	2.1	50	Analytical	950
42593	CHIRALCEL OZ-3	3	2.1	100	Analytical	1,485
42594	CHIRALCEL OZ-3	3	2.1	150	Analytical	1,970
42595	CHIRALCEL OZ-3	3	2.1	250	Analytical	2,100

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALCEL® OZ-RH						
42711	CHIRALCEL OZ-RH	5	4	10	Guard Cartridges	320
42724	CHIRALCEL OZ-RH	5	4.6	150	Analytical	1,590
42745	CHIRALCEL OZ-RH	5	21	250	Semi-Prep Rev Ph	12,720
42794	CHIRALCEL OZ-RH	5	2.1	150	Analytical	1,510

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALCEL® OZ-3R						
42811	CHIRALCEL OZ-3R	3	4.0	10	Guard Cartridges	380
42822	CHIRALCEL OZ-3R	3	4.6	50	Analytical	950
42823	CHIRALCEL OZ-3R	3	4.6	100	Analytical	1,485
42824	CHIRALCEL OZ-3R	3	4.6	150	Analytical	1,970
42892	CHIRALCEL OZ-3R	3	2.1	50	Analytical	950
42893	CHIRALCEL OZ-3R	3	2.1	100	Analytical	1,485
42894	CHIRALCEL OZ-3R	3	2.1	150	Analytical	1,970
42895	CHIRALCEL OZ-3R	3	2.1	250	Analytical	2,100

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AD						
19020	CHIRALPAK AD	20	1 kg	–	Bulk CSP	Call
19022	CHIRALPAK AD	10	4.6	50	Guard Column	530
19025	CHIRALPAK AD	10	4.6	250	Analytical	1,750
19035	CHIRALPAK AD	10	10	250	Semi-Prep	5,510
19045	CHIRALPAK AD	10	20	250	Semi-Prep	12,720
19094	CHIRALPAK AD	10	2.1	150	Analytical	1,510
19225	CHIRALPAK AD	20	4.6	250	Method Development	1,750
19233	CHIRALPAK AD	20	10	100	SMB (set of 8)	13,990
19235	CHIRALPAK AD	20	10	250	Semi-Prep	2,780
19242	CHIRALPAK AD	20	21	50	Semi-Prep Guard	2,100
19245	CHIRALPAK AD	20	21	250	Semi-Prep	5,980
19255	CHIRALPAK AD	20	50	250	Semi-Prep	20,820
19256	CHIRALPAK AD	20	50	500	Preparative	32,425
19266	CHIRALPAK AD	20	100	500	Preparative	77,520
19275	CHIRALPAK AD	20	30	250	Semi-Prep	8,750
19935	CHIRALPAK AD	20	10	250	SFC Semi-Prep	2,780
19945	CHIRALPAK AD	20	21	250	SFC Semi-Prep	5,980
19955	CHIRALPAK AD	20	50	250	SFC Semi-Prep	20,820
19975	CHIRALPAK AD	20	30	250	SFC Semi-Prep	8,750

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AD-H						
19311	CHIRALPAK AD-H	5	4.0	10	Guard Cartridges	320
19324	CHIRALPAK AD-H	5	4.6	150	Analytical	1,590
19325	CHIRALPAK AD-H	5	4.6	250	Analytical	1,750
19335	CHIRALPAK AD-H	5	10	250	Semi-Prep	5,510

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
19345	CHIRALPAK AD-H	5	20	250	Semi-Prep	12,720
19375	CHIRALPAK AD-H	5	30	250	Semi-Prep	21,840
19394	CHIRALPAK AD-H	5	2.1	150	Analytical	1,510
19422	CHIRALPAK AD-H	5	4.6	50	SFC Guard	950
19423	CHIRALPAK AD-H	5	4.6	100	SFC Screening Column	1,055
19435	CHIRALPAK AD-H	5	10	250	SFC Semi-Prep	5,510
19445	CHIRALPAK AD-H	5	21	250	SFC Semi-Prep	12,720
19455	CHIRALPAK AD-H	5	50	250	SFC Preparative	52,500
19475	CHIRALPAK AD-H	5	30	250	SFC Semi-Prep	21,840

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AD-3						
19511	CHIRALPAK AD-3	3	4.0	10	Guard Cartridges	380
19522	CHIRALPAK AD-3	3	4.6	50	Analytical	950
19523	CHIRALPAK AD-3	3	4.6	100	Analytical	1,485
19524	CHIRALPAK AD-3	3	4.6	150	Analytical	1,970
19525	CHIRALPAK AD-3	3	4.6	250	Analytical	2,100
19592	CHIRALPAK AD-3	3	2.1	50	Analytical	950
19593	CHIRALPAK AD-3	3	2.1	100	Analytical	1,485
19594	CHIRALPAK AD-3	3	2.1	150	Analytical	1,970
19595	CHIRALPAK AD-3	3	2.1	250	Analytical	2,100

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AD-RH						
19711	CHIRALPAK AD-RH	5	4.0	10	Guard Cartridges	320
19724	CHIRALPAK AD-RH	5	4.6	150	Analytical	1,590
19745	CHIRALPAK AD-RH	5	21	250	Semi-Prep Rev Ph	12,720
19794	CHIRALPAK AD-RH	5	2.1	150	Analytical	1,510

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AD-3R						
19811	CHIRALPAK AD-3R	3	4.0	10	Guard Cartridges	380
19822	CHIRALPAK AD-3R	3	4.6	50	Analytical	950
19823	CHIRALPAK AD-3R	3	4.6	100	Analytical	1,485
19824	CHIRALPAK AD-3R	3	4.6	150	Analytical	1,970
19892	CHIRALPAK AD-3R	3	2.1	50	Analytical	950
19893	CHIRALPAK AD-3R	3	2.1	100	Analytical	1,485
19894	CHIRALPAK AD-3R	3	2.1	150	Analytical	1,970
19895	CHIRALPAK AD-3R	3	2.1	250	Analytical	2,100

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AS						
20020	CHIRALPAK AS	20	1 kg	–	Bulk CSP	Call
20022	CHIRALPAK AS	10	4.6	50	Guard Column	530
20025	CHIRALPAK AS	10	4.6	250	Analytical	1,750
20035	CHIRALPAK AS	10	10	250	Semi-Prep	5,510
20045	CHIRALPAK AS	10	20	250	Semi-Prep	12,720
20225	CHIRALPAK AS	20	4.6	250	Method Development	1,750
20233	CHIRALPAK AS	20	10	100	SMB (set of 8)	13,990
20235	CHIRALPAK AS	20	10	250	Semi-Prep	2,780
20242	CHIRALPAK AS	20	21	50	Semi-Prep Guard	2,100
20245	CHIRALPAK AS	20	21	250	Semi-Prep	5,980
20255	CHIRALPAK AS	20	50	250	Semi-Prep	20,820
20256	CHIRALPAK AS	20	50	500	Preparative	32,425
20266	CHIRALPAK AS	20	100	500	Preparative	77,520
20275	CHIRALPAK AS	20	30	250	Semi-Prep	8,750
20935	CHIRALPAK AS	20	10	250	SFC Semi-Prep	2,780

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
20945	CHIRALPAK AS	20	21	250	SFC Semi-Prep	5,980
20955	CHIRALPAK AS	20	50	250	SFC Semi-Prep	20,820
20975	CHIRALPAK AS	20	30	250	SFC Semi-Prep	8,750

CHIRALPAK® AS-H

20311	CHIRALPAK AS-H	5	4.0	10	Guard Cartridges	320
20324	CHIRALPAK AS-H	5	4.6	150	Analytical	1,590
20325	CHIRALPAK AS-H	5	4.6	250	Analytical	1,750
20335	CHIRALPAK AS-H	5	10	250	Semi-Prep	5,510
20345	CHIRALPAK AS-H	5	20	250	Semi-Prep	12,720
20375	CHIRALPAK AS-H	5	30	250	Semi-Prep	21,840
20394	CHIRALPAK AS-H	5	2.1	150	Analytical	1,510
20422	CHIRALPAK AS-H	5	4.6	50	SFC Guard	950
20423	CHIRALPAK AS-H	5	4.6	100	SFC Screening Column	1,055
20435	CHIRALPAK AS-H	5	10	250	SFC Semi-Prep	5,510
20445	CHIRALPAK AS-H	5	21	250	SFC Semi-Prep	12,720
20455	CHIRALPAK AS-H	5	50	250	SFC Preparative	52,500
20475	CHIRALPAK AS-H	5	30	250	SFC Semi-Prep	21,840

CHIRALPAK® AS-3

20511	CHIRALPAK AS-3	3	4.0	10	Guard Cartridges	380
20522	CHIRALPAK AS-3	3	4.6	50	Analytical	950
20523	CHIRALPAK AS-3	3	4.6	100	Analytical	1,485
20524	CHIRALPAK AS-3	3	4.6	150	Analytical	1,970
20525	CHIRALPAK AS-3	3	4.6	250	Analytical	2,100
20592	CHIRALPAK AS-3	3	2.1	50	Analytical	950
20593	CHIRALPAK AS-3	3	2.1	100	Analytical	1,485
20594	CHIRALPAK AS-3	3	2.1	150	Analytical	1,970
20595	CHIRALPAK AS-3	3	2.1	250	Analytical	2,100

CHIRALPAK® AS-RH

20711	CHIRALPAK AS-RH	5	4.0	10	Guard Cartridges	320
20724	CHIRALPAK AS-RH	5	4.6	150	Analytical	1,590
20745	CHIRALPAK AS-RH	5	21	250	Semi-Prep Rev Ph	12,720
20794	CHIRALPAK AS-RH	5	2.1	150	Analytical	1,510

CHIRALPAK® AS-3R

20811	CHIRALPAK AS-3R	3	4.0	10	Guard Cartridges	380
20822	CHIRALPAK AS-3R	3	4.6	50	Analytical	950
20823	CHIRALPAK AS-3R	3	4.6	100	Analytical	1,485
20824	CHIRALPAK AS-3R	3	4.6	150	Analytical	1,970
20892	CHIRALPAK AS-3R	3	2.1	50	Analytical	950
20893	CHIRALPAK AS-3R	3	2.1	100	Analytical	1,485
20894	CHIRALPAK AS-3R	3	2.1	150	Analytical	1,970
20895	CHIRALPAK AS-3R	3	2.1	250	Analytical	2,100

CHIRALPAK® AY

47020	CHIRALPAK AY	20	1 kg	–	Bulk CSP	Call
47225	CHIRALPAK AY	20	4.6	250	Method Development	1,750
47233	CHIRALPAK AY	20	10	100	SMB (set of 8)	13,990
47235	CHIRALPAK AY	20	10	250	Semi-Prep	2,780
47242	CHIRALPAK AY	20	21	50	Semi-Prep Guard	2,100

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
47245	CHIRALPAK AY	20	21	250	Semi-Prep	5,980
47255	CHIRALPAK AY	20	50	250	Semi-Prep	20,820
47256	CHIRALPAK AY	20	50	500	Preparative	32,425
47266	CHIRALPAK AY	20	100	500	Preparative	77,520
47275	CHIRALPAK AY	20	30	250	Semi-Prep	8,750
47935	CHIRALPAK AY	20	10	250	SFC Semi-Prep	2,780
47945	CHIRALPAK AY	20	21	250	SFC Semi-Prep	5,980
47955	CHIRALPAK AY	20	50	250	SFC Semi-Prep	20,820
47975	CHIRALPAK AY	20	30	250	SFC Semi-Prep	8,750

CHIRALPAK® AY-H

47311	CHIRALPAK AY-H	5	4.0	10	Guard Cartridges	320
47324	CHIRALPAK AY-H	5	4.6	150	Analytical	1,590
47325	CHIRALPAK AY-H	5	4.6	250	Analytical	1,750
47335	CHIRALPAK AY-H	5	10	250	Semi-Prep	5,510
47345	CHIRALPAK AY-H	5	20	250	Semi-Prep	12,720
47375	CHIRALPAK AY-H	5	30	250	Semi-Prep	21,840
47394	CHIRALPAK AY-H	5	2.1	150	Analytical	1,510
47422	CHIRALPAK AY-H	5	4.6	50	SFC Guard	950
47423	CHIRALPAK AY-H	5	4.6	100	SFC Screening Column	1,055
47435	CHIRALPAK AY-H	5	10	250	SFC Semi-Prep	5,510
47445	CHIRALPAK AY-H	5	21	250	SFC Semi-Prep	12,720
47455	CHIRALPAK AY-H	5	50	250	SFC Preparative	52,500
47475	CHIRALPAK AY-H	5	30	250	SFC Semi-Prep	21,840

CHIRALPAK® AY-3

47511	CHIRALPAK AY-3	3	4.0	10	Guard Cartridges	380
47522	CHIRALPAK AY-3	3	4.6	50	Analytical	950
47523	CHIRALPAK AY-3	3	4.6	100	Analytical	1,485
47524	CHIRALPAK AY-3	3	4.6	150	Analytical	1,970
47525	CHIRALPAK AY-3	3	4.6	250	Analytical	2,100
47592	CHIRALPAK AY-3	3	2.1	50	Analytical	950
47593	CHIRALPAK AY-3	3	2.1	100	Analytical	1,485
47594	CHIRALPAK AY-3	3	2.1	150	Analytical	1,970
47595	CHIRALPAK AY-3	3	2.1	250	Analytical	2,100

CHIRALPAK® AY-RH

47711	CHIRALPAK AY-RH	5	4.0	10	Guard Cartridges	320
47724	CHIRALPAK AY-RH	5	4.6	150	Analytical	1,590
47745	CHIRALPAK AY-RH	5	21	250	Semi-Prep Rev Ph	12,720
47794	CHIRALPAK AY-RH	5	2.1	150	Analytical	1,510

CHIRALPAK® AY-3R

47811	CHIRALPAK AY-3R	3	4.0	10	Guard Cartridges	380
47822	CHIRALPAK AY-3R	3	4.6	50	Analytical	950
47823	CHIRALPAK AY-3R	3	4.6	100	Analytical	1,485
47824	CHIRALPAK AY-3R	3	4.6	150	Analytical	1,970
47892	CHIRALPAK AY-3R	3	2.1	50	Analytical	950
47893	CHIRALPAK AY-3R	3	2.1	100	Analytical	1,485
47894	CHIRALPAK AY-3R	3	2.1	150	Analytical	1,970
47895	CHIRALPAK AY-3R	3	2.1	250	Analytical	2,100

2014 Price List

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AZ						
61161	CHIRALPAK AZ	20	1 kg	–	Bulk CSP	Call
61225	CHIRALPAK AZ	20	4.6	250	Method Development	1,750
61233	CHIRALPAK AZ	20	10	100	SMB (set of 8)	13,990
61235	CHIRALPAK AZ	20	10	250	Semi-Prep	2,780
61242	CHIRALPAK AZ	20	21	50	Semi-Prep Guard	2,100
61245	CHIRALPAK AZ	20	21	250	Semi-Prep	5,980
61255	CHIRALPAK AZ	20	50	250	Preparative	20,820
61256	CHIRALPAK AZ	20	50	500	Preparative	32,425
61266	CHIRALPAK AZ	20	100	500	Preparative	77,520
61275	CHIRALPAK AZ	20	30	250	Preparative	8,750
61935	CHIRALPAK AZ	20	10	250	SFC Semi-Prep	2,780
61945	CHIRALPAK AZ	20	21	250	SFC Semi-Prep	5,980
61955	CHIRALPAK AZ	20	50	250	SFC Semi-Prep	20,820
61975	CHIRALPAK AZ	20	30	250	SFC Semi-Prep	8,750

CHIRALPAK® AZ-H

61311	CHIRALPAK AZ-H	5	4.0	10	Guard Cartridges	320
61324	CHIRALPAK AZ-H	5	4.6	150	Analytical	1,590
61325	CHIRALPAK AZ-H	5	4.6	250	Analytical	1,750
61335	CHIRALPAK AZ-H	5	10	250	Semi-Prep	5,510
61345	CHIRALPAK AZ-H	5	20	250	Semi-Prep	12,720
61375	CHIRALPAK AZ-H	5	30	250	Semi-Prep	21,840
61394	CHIRALPAK AZ-H	5	2.1	150	Analytical	1,510
61422	CHIRALPAK AZ-H	5	4.6	50	SFC Guard	950
61423	CHIRALPAK AZ-H	5	4.6	100	SFC Screening Column	1,055
61435	CHIRALPAK AZ-H	5	10	250	SFC Semi-Prep	5,510
61445	CHIRALPAK AZ-H	5	21	250	SFC Semi-Prep	12,720
61455	CHIRALPAK AZ-H	5	50	250	SFC Preparative	52,500
61475	CHIRALPAK AZ-H	5	30	250	SFC Semi-Prep	21,840

CHIRALPAK® AZ-3

61511	CHIRALPAK AZ-3	3	4.0	10	Guard Cartridges	380
61522	CHIRALPAK AZ-3	3	4.6	50	Analytical	950
61523	CHIRALPAK AZ-3	3	4.6	100	Analytical	1,485
61524	CHIRALPAK AZ-3	3	4.6	150	Analytical	1,970
61525	CHIRALPAK AZ-3	3	4.6	250	Analytical	2,100
61592	CHIRALPAK AZ-3	3	2.1	50	Analytical	950
61593	CHIRALPAK AZ-3	3	2.1	100	Analytical	1,485
61594	CHIRALPAK AZ-3	3	2.1	150	Analytical	1,970
61595	CHIRALPAK AZ-3	3	2.1	250	Analytical	2,100

CHIRALPAK® AZ-RH

61711	CHIRALPAK AZ-RH	5	4.0	10	Guard Cartridges	320
61724	CHIRALPAK AZ-RH	5	4.6	150	Analytical	1,590
61745	CHIRALPAK AZ-RH	5	21	250	Semi-Prep Rev Ph	12,720
61794	CHIRALPAK AZ-RH	5	2.1	150	Analytical	1,510

PART NUMBER	PRODUCT NAME	PARTICLE SIZE (µm)	ID (mm)	LENGTH (mm)	PRODUCT TYPE	PRICE (\$)
CHIRALPAK® AZ-3R						
61811	CHIRALPAK AZ-3R	3	4.0	10	Guard Cartridges	380
61822	CHIRALPAK AZ-3R	3	4.6	50	Analytical	950
61823	CHIRALPAK AZ-3R	3	4.6	100	Analytical	1,485
61824	CHIRALPAK AZ-3R	3	4.6	150	Analytical	1,970
61892	CHIRALPAK AZ-3R	3	2.1	50	Analytical	950
61893	CHIRALPAK AZ-3R	3	2.1	100	Analytical	1,485
61894	CHIRALPAK AZ-3R	3	2.1	150	Analytical	1,970
61895	CHIRALPAK AZ-3R	3	2.1	250	Analytical	2,100

CHIRAL SELECTORS FOR SPECIAL APPLICATIONS

CHIRALPAK® MA(+)

21822	CHIRALPAK MA(+)	3	4.6	50	Analytical	1,750
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CHIRALPAK® WH

25622	CHIRALPAK WH	10	4.6	50	Guard Column	530
25625	CHIRALPAK WH	10	4.6	250	Analytical	1,750

CROWNPAK® CR

27711	CROWNPAK CR	5	4.0	10	Guard Column	265
27714	CROWNPAK CR(+)	5	4.0	150	Analytical	1,750
28714	CROWNPAK CR(-)	5	4.0	150	Analytical	1,750

ANION EXCHANGE

31311	CHIRALPAK QD-AX	5	4.0	10	Guard Cartridges	350
31324	CHIRALPAK QD-AX	5	4.6	150	Analytical	1,735
31344	CHIRALPAK QD-AX	5	20	150	HPLC Semi-Prep	14,470
31394	CHIRALPAK QD-AX	5	2.1	150	Analytical	1,565
32311	CHIRALPAK QN-AX	5	4.0	10	Guard Cartridges	350
32324	CHIRALPAK QN-AX	5	4.6	150	Analytical	1,735
32344	CHIRALPAK QN-AX	5	20	150	HPLC Semi-Prep	14,470
32394	CHIRALPAK QN-AX	5	2.1	150	Analytical	1,565

COLUMN ACCESSORIES

00011	Cartridge Holder	–	4.0	10	Holder	160
00024	Column Jacket, 15 cm	–	4.6	150	Jacket	180
00025	Column Jacket, 25 cm	–	4.6	250	Jacket	180
00060 ¹	Pre Column Filter Assembly	–	21.2	–	Holder and Filter	300
00061	Pre Column Filter, 2 micron	–	21.2	–	Replacement Filter	25
00062	Assembly O-Rings	–	–	–	Replacement O-Rings, set of 2	50

¹Free with 2 and 3 cm SFC column orders

CHIRAL TECHNOLOGIES, INC. STANDARD TERMS AND CONDITIONS OF SALE

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 issued a written acceptance of said purchase order. Any alteration and/or supplement to any purchase order shall be valid only if such alteration and/or supplement is confirmed in writing 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. 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 shall 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, STORED, 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.



CHIRAL
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