

Spe-ed Cartridges

Applied Separations offers a wide variety of cartridge types and configurations. You can be assured of reproducible results, less variability, and smooth transition to automated procedures through Applied Separations' tight quality control for particle size, surface activity, pH, flow rate and interferences.

Standard

Large Reservoir Cartridges (15mL)

Standard Cartridges

Standard extraction columns are straight walled polypropylene syringe barrel tubes designed for fast, easy, and exact sample preparations.

These cartridges are available in 1mL, 3mL, 6mL, 12mL, 20mL, 35mL, 60mL and 150mL sizes.



Spe-ed LRC

The wide opening of both the 100mg and 500mg polypropylene large reservoir cartridge allows for sample or rinse volumes greater than that allowed by the standard cartridges. The flared shape accommodates up to 15mL of sample without using additional reservoirs or adaptors.



Standard Cartridges

Cartridge Selection

For cartridges listed by sorbent, see section 3.

Sorbent packed in standard 1mL, 3mL, 6mL, or 12mL syringe barrel polypropylene cartridges.

Sorbent		Catalog Number					
Standard <i>Spe-ed</i> Cartridges		100mg 1mL	200mg 3mL	500mg 3mL	500mg 6mL	1000mg 6mL	1000mg 12mL
C18	Octadecyl C18/14%	2001	2002	2003	2006	2007	2009
C18	Octadecyl C18/18%	12001	12002	12003	12006	12007	12009
C18	Octadecyl C18/22%	12101	12102	12103	12106	12107	12109
C18	Octadecyl C18/OH	12201	12202	12203	12206	12207	12209
C8	Octyl	2011	2012	2013	2016	2017	2019
PH	Phenyl	2081	2082	2083	2086	2087	2089
CH	Cyclohexyl	2071	2072	2073	2076	2077	2079
C4	Butyl	2021	2022	2023	2026	2027	2029
C2	Ethyl	2061	2062	2063	2066	2067	2069
C1	Methyl	2051	2052	2053	2056	2057	2059
CNe	Cyanopropyl (endcapped)	2221	2222	2223	2226	2227	2229
CN	Cyanopropyl	2201	2202	2203	2206	2207	2209
SI	Silica Gel	2101	2102	2103	2106	2107	2109
FLO	Florisil	2111	2112	2113	2116	2117	2119
ALN	Alumina (Neutral)	2121	2122	2123	2126	2127	2129
ALA	Alumina (Acidic)	2131	2132	2133	2136	2137	2139
ALB	Alumina (Basic)	2141	2142	2143	2146	2147	2149
DIO	Diol	2151	2152	2153	2156	2157	2159
COOH	Carboxylic Acid	2311	2312	2313	2316	2317	2319
SCX	Benzenesulfonic Acid	2321	2322	2323	2326	2327	2329
NH ₂	Aminopropyl	2211	2212	2213	2216	2217	2219
PSA	Pri/Sec Amino	2241	2242	2243	2246	2247	2249
DEA	Diethylamino	2331	2332	2333	2336	2337	2339
N ⁺	Quaternary Amino	2301	2302	2303	2306	2307	2309
PBA	Phenylboronic Acid	2341	2342	2343	2346	2347	2349
Qty/Box		100	50	50	30	30	20

Standard Cartridges

Cartridge Selection

For cartridges listed by sorbent, see section 3.

Sorbent packed in super 6mL, 12mL, 35mL, or 60mL syringe barrel polypropylene cartridges.

Sorbent		Catalog Number							
Standard <i>Spe-ed</i> Cartridges		2g 6mL	2g 12mL	2g 35mL	3g 12mL	3g 35mL	5g 35mL	10g 60mL	20mg 60mL
C18	Octadecyl C18/14%	2008	5001	5002	5003	5004	5005	5007	5008
C18	Octadecyl C18/18%	12008	15001	15002	15003	15004	15005	15007	15008
C18	Octadecyl C18/22%	12108	15101	15102	15103	15104	15105	15107	15108
C18	Octadecyl C18/OH	12208	15201	15202	15203	15204	15205	15207	15208
C8	Octyl	2018	5011	5012	5013	5014	5015	5017	5018
PH	Phenyl	2088	5081	5082	5083	5084	5085	5087	5088
CH	Cyclohexyl	2078	5071	5072	5073	5074	5075	5077	5078
C4	Butyl	2028	5021	5022	5023	5024	5025	5027	5028
C2	Ethyl	2068	5061	5062	5063	5064	5065	5067	5068
C1	Methyl	2058	5051	5052	5053	5054	5055	5057	5058
CNe	Cyanopropyl (endcapped)	2228	5221	5222	5223	5224	5225	5227	5228
CN	Cyanopropyl	2208	5201	5202	5203	5204	5205	5207	5208
SI	Silica Gel	2108	5101	5102	5103	5104	5105	5107	5108
FLO	Florisil	2118	5111	5112	5113	5114	5115	5117	5118
ALN	Alumina (Neutral)	2128	5121	5122	5123	5124	5125	5127	5128
ALA	Alumina (Acidic)	2138	5131	5132	5133	5134	5135	5137	5138
ALB	Alumina (Basic)	2148	5141	5142	5143	5144	5145	5147	5148
DIO	Diol	2158	5151	5152	5153	5154	5155	5157	5158
COOH	Carboxylic Acid	2318	5311	5312	5313	5314	5315	5317	5318
SCX	Benzenesulfonic Acid	2328	5321	5322	5323	5324	5325	5327	5328
NH ₂	Aminopropyl	2218	5211	5212	5213	5214	5215	5217	5218
PSA	Pri/Sec Amino	2248	5241	5242	5243	5244	5245	5247	5248
DEA	Diethylamino	2338	5331	5332	5333	5334	5335	5337	5338
N ⁺	Quaternary Amino	2308	5301	5302	5303	5304	5305	5307	5308
PBA	Phenylboronic Acid	2348	5321	5342	5343	5344	5345	5347	5348
Qty/Box		30	20	20	20	20	20	12	12

Spe-ed LRC

Cartridge Selection

For cartridges listed by sorbent, see section 3.

Sorbent packed in 15mL reservoir cartridge.

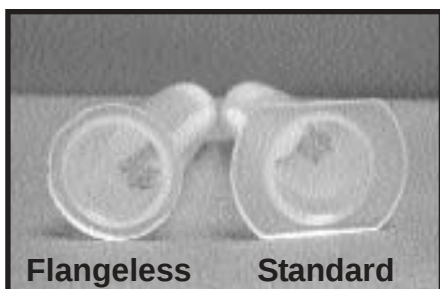
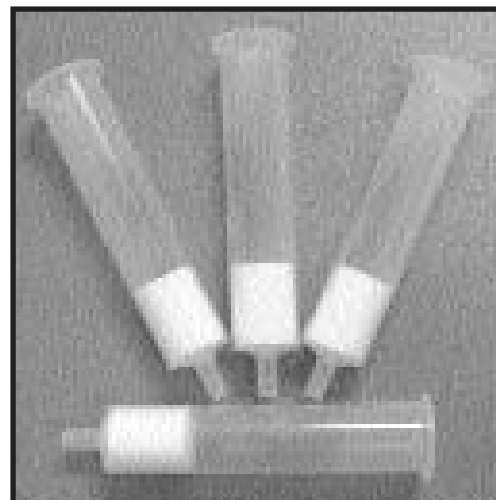
Sorbent		Qty/Box	Catalog Number		
<i>Spe-ed LRC</i>			100mg	300mg	500mg
C18	Octadecyl C18/14%	30	3001	3003	3005
C18	Octadecyl C18/18%	30	3041	3043	3045
C18	Octadecyl C18/22%	30	3091	3093	3095
C18	Octadecyl C18/OH	30	3191	3193	3195
C8	Octyl	30	3011	3013	3015
PH	Phenyl	30	3081	3083	3085
CH	Cyclohexyl	30	3071	3073	3075
C4	Butyl	30	3021	3023	3025
C2	Ethyl	30	3061	3063	3065
C1	Methyl	30	3051	3053	3055
CNe	Cyanopropyl (endcapped)	30	3221	3223	3225
CN	Cyanopropyl	30	3201	3203	3205
SI	Silica Gel	30	3101	3103	3105
FLO	Florisil	30	3111	3113	3115
ALN	Alumina (Neutral)	30	3121	3123	3125
ALA	Alumina (Acidic)	30	3131	3133	3135
ALB	Alumina (Basic)	30	3141	3143	3145
DIO	Diol	30	3151	3153	3155
COOH	Carboxylic Acid	30	3311	3313	3315
SCX	Benzenesulfonic Acid	30	3321	3323	3325
NH ₂	Aminopropyl	30	3211	3213	3215
PSA	Pri/Sec Amino	30	3241	3243	3245
DEA	Diethylamino	30	3331	3333	3335
N ⁺	Quaternary Amino	30	3301	3303	3305
PBA	Phenylboronic Acid	30	3341	3343	3345

Flangeless Cartridges

Spe-ed Flangeless Cartridges

Today's fully automated SPE processing systems require an SPE cartridge configuration that has been specially adapted to fit these instruments. Applied Separations' Flangeless cartridges do not have the flange, or tab that is found at the top of Applied Separations' Standard SPE cartridge.

They are identical in every other way.

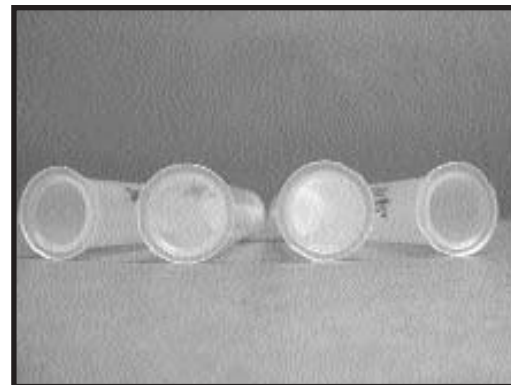


Applied Separations provides the same wide variety and high quality packings in these specially modified cartridges as available in its standard SPE cartridges.

The flangeless design allows for closer packing in specialized automated SPE systems, such as the Gilson® SPE215. This format will accommodate 96 x 1mL cartridges, or 48 x 3mL cartridges in the standard 96-well footprint.

If non-standard sorbents, packing amounts, or cartridge sizes are required, Applied Separations can provide them.

Empty cartridges with a wide variety of different frit material are also available.



Flangeless Cartridges

Sorbent		Catalog Number						
Flangeless Cartridges		100mg 1mL	200mg 3mL	500mg 3mL	500mg 6mL	1000mg 6mL	2g 6mL	1000mg 12mL
C18	Octadecyl C18/14%	13100	13101	13102	13103	13104	13281	13105
C18	Octadecyl C18/18%	13106	13107	13108	13109	13110	13282	13111
C18	Octadecyl C18/22%	13112	13113	13114	13115	13116	13283	13117
C18	Octadecyl C18/OH	13118	13119	13120	13121	13122	13284	13123
C8	Octyl	13124	13125	13126	13127	13128	13285	13129
PH	Phenyl	13130	13131	13132	13133	13134	13286	13135
CH	Cyclohexyl	13136	13137	13138	13139	13140	13287	13141
C4	Butyl	13142	13143	13144	13145	13146	13288	13147
C2	Ethyl	13148	13149	13150	13151	13152	13289	13153
C1	Methyl	13154	13155	13156	13157	13158	13290	13159
CNe	Cyanopropyl (endcapped)	13160	13161	13162	13163	13164	13291	13165
CN	Cyanopropyl	13166	13167	13168	13169	13170	13292	13171
SI	Silica Gel	13172	13173	13174	13175	13176	13293	13177
FLO	Florisil	13178	13179	13180	13181	13182	13294	13183
ALN	Alumina (Neutral)	13184	13185	13186	13187	13188	13295	13189
ALA	Alumina (Acidic)	13190	13191	13192	13193	13194	13296	13195
ALB	Alumina (Basic)	13196	13197	13198	13199	13200	13297	13201
DIO	Diol	13202	13203	13204	13205	13206	13298	13207
COOH	Carboxylic Acid	13208	13209	13210	13211	13212	13299	13213
SCX	Benzenesulfonic Acid	13214	13215	13216	13217	13218	13280	13219
NH ₂	Aminopropyl	13220	13221	13223	13224	13225	13300	13225
PSA	Pri/Sec Amino	13226	13227	13228	13229	13230	13301	13231
DEA	Diethylamino	13232	13233	13234	13235	13236	13302	13237
N ⁺	Quaternary Amino	13238	13239	13240	13241	13242	13303	13243
Qty/Box		100	50	50	30	30	30	20

Spe-ed FLASH

Disposable Columns for
Flash Chromatography

Spe-ed™ Flash columns have been designed and manufactured to meet the critical needs of researchers who are using automated organic purification instruments.

Buy your Flash columns from
a company that actually
manufactures the packings

Get consistent results because there's

- uniformity from batch to batch

Uniform and fast flow for excellent separations, because there's...

- narrow particle size distribution

No samples are lost due to pressure problems, because there's...

- 100% inspection. Every cartridges is tested for leaks at 100 psi

Wide range of column configurations
to fit most popular instruments -
even your custom configuration

Fast Delivery

Economical Pricing

Large Selection of Packings

Popular silica or SCX columns

Over 50 different packings are also available, including:

- C18 • Phenyl • C1 • Alumina • NH2 • Quat Amino • C8 • Cyclohexyl •
- Cyanopropyl • Diol • PSA • C4 • C2 • Florisil • COOH • DEA • XADs •
- Polymeric SDVB, etc



Spe-ed Flash

Cartridge Selection

Representative list only. For full list of cartridges by sorbent, see section 6.

Sorbent		Catalog Number							
<i>Spe-ed Flash Cartridges</i>		D12S	D12M	D40S	D40M	D40L	D40XL	D65M	D65L
SI	Silica Gel	12347	12348	12301	12303	12305	12307	12425	12426
C18	Octadecyl C18/18%	12353	12354	12309	12311	12313	12315	12428	12429
C4	Octyl	12357	12358	12317	12319	12321	12323	12431	12432
SCX		12361	12362	12260	12262	12264	12266	12434	12435
SAX		12364	12365	12268	12270	12272	12274	12437	12438
HP20SS		12367	12368	12276	12278	12280	12282	12440	12441
Alumina (neutral)		12394	12395					12443	12444

MiniSpe-ed/MiniPlus

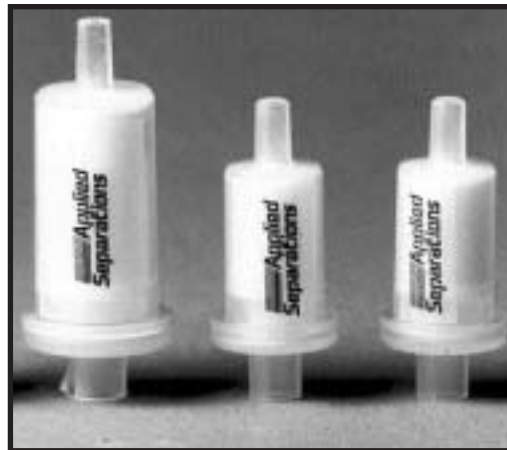
for Solid Phase
Extraction

MiniSpe-ed Cartridges

MiniSpe-ed cartridges contain the wide variety of sorbents found in standard Spe-ed cartridges. The MiniSpe-ed configuration can be easily used in manual syringe operations or on a vacuum manifold. MiniSpe-ed cartridges have a 1.0mL volume. For silica gel, this is 450mg.

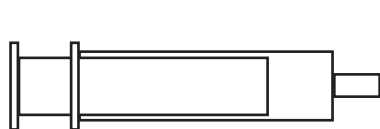
MiniSpe-ed Plus Cartridges

MiniSpe-ed Plus cartridges have the same configuration as MiniSpe-eds, but hold almost three times as much sorbent. The MiniSpe-ed Plus cartridge has a volume of 2.8mL. The weight of different sorbents will vary depending on their bulk density; for silica gel this is 1265mg.

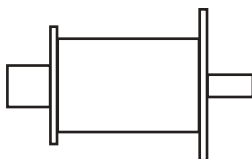


Convenience

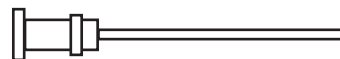
MiniSpe-ed / Plus cartridges stack together, interchangeably, allowing the use of more than one sorbent, or further increasing capacity. Both cartridge types are available empty or pre-fritted for your own packing. The MiniSpe-ed and MiniSpe-ed Plus cartridges use standard 20µm hydrophobic polyethylene SPE frits. Other frit material is available.



Syringe



MiniSpe-ed or MiniSpe-ed Plus



Outlet Needle

MiniSpe-ed/MiniPlus

Cartridge Selection

For cartridges listed by sorbent, see section 3.

All other packings that Applied Separations offers can be ordered in the MiniSpe-ed and MiniSpe-ed Plus format.

All cartridges are made with 20µm hydrophobic polyethylene frits. Other materials are available. Please inquire.

Sorbent		Qty/Box	Catalog Number	
Standard Spe-ed Cartridges			Mini	MiniPlus
C18	Octadecyl C18/14%	50	14001	24001
C18	Octadecyl C18/18%	50	14002	24002
C18	Octadecyl C18/22%	50	14003	24003
C18	Octadecyl C18/OH	50	14004	24004
C8	Octyl	50	14005	24005
PH	Phenyl	50	14006	24006
CH	Cyclohexyl	50	14007	24007
C4	Butyl	50	14009	24009
C2	Ethyl	50	14010	24010
C1	Methyl	50	14011	24011
CNe	Cyanopropyl (endcapped)	50	14012	24012
CN	Cyanopropyl	50	14013	24013
SI	Silica Gel	50	14014	24014
FLO	Florisil	50	14015	24015
ALN	Alumina (Neutral)	50	14016	24016
ALA	Alumina (Acidic)	50	14017	24017
ALB	Alumina (Basic)	50	14018	24018
DIO	Diol	50	14019	24019
COOH	Carboxylic Acid	50	14020	24020
SCX	Benzenesulfonic Acid	50	14021	24021
NH ₂	Aminopropyl	50	14022	24022
PSA	Pri/Sec Amino	50	14023	24023
DEA	Diethylamino	50	14024	24024
N+	Quaternary Amino	50	14025	24025

Spe-ed 96

Solid Phase Extraction in a 96-Well Format

Spe-ed 96

Make SPE sample preparation easier, faster, and more economical with *Spe-ed* 96-Well Plates.

Economical

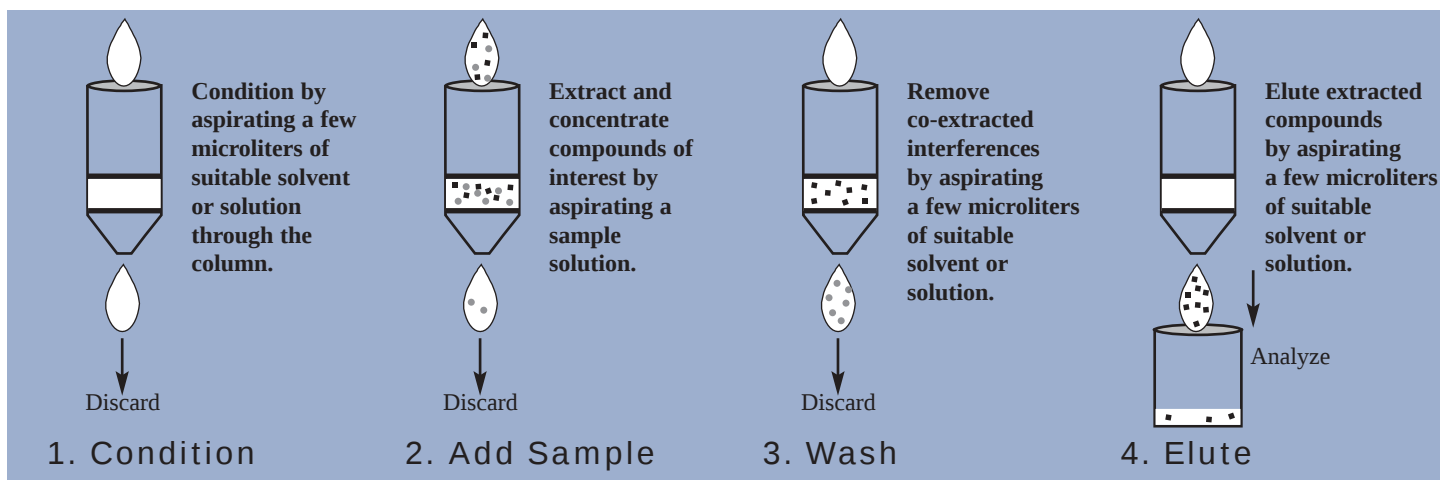
Prepare 96 samples at one time. Reduce use of hazardous solvents, operator time, glassware, and equipment.

Reproducible

Achieve high recoveries with 2-3% coefficients of variation.

Versatile

Perform extractions with a wide variety of sorbents. Two plate sizes and a range of standard packing amounts are available.



Cat. #	Description	Qty.
24030	1mL empty extraction plate	1
24031	1mL extraction plate w/20µm frits	1
24032	1mL 20µm frits	100
24033	1mL collection plates	20
24034	1mL collection plate	1
24029	Universal 96-well vacuum manifold	1

Cat. #	Description	Qty.
24040	2mL empty extraction plate	1
24041	2mL extraction plate w/20µm frits	1
24042	2mL round 20µm frits	100
24043	2mL square 20µm frits	100
24044	2mL collection plates	20
24045	2mL collection plate	1

Spe-ed 96

Cartridge Selection

For cartridges listed by sorbent, see section 3.

For resins and specialty sorbents, see page 4.

Sorbent		Catalog Number					
<i>Spe-ed 96</i>		25mg 1mL	50mg 1mL	25mg 2mL	50mg 2mL	100mg 2mL	200mg 2mL
C18	Octadecyl C18/14%	24050	24051	24052	24053	24054	24055
C18	Octadecyl C18/18%	24060	24061	24062	24063	24064	24065
C18	Octadecyl C18/22%	24070	24071	24072	24073	24074	24075
C18	Octadecyl C18/OH	24080	24081	24082	24083	24084	24085
C8	Octyl	24100	24101	24102	24103	24104	24105
PH	Phenyl	24110	24111	24112	24113	24114	24115
CH	Cyclohexyl	24120	24121	24122	24123	24124	24125
C4	Butyl	24130	24131	24132	24133	24134	24135
C2	Ethyl	24140	24141	24142	24143	24144	24145
C1	Methyl	24150	24151	24152	24153	24154	24155
CNe	Cyanopropyl (endcapped)	24160	24161	24162	24163	24164	24165
CN	Cyanopropyl	24170	24171	24172	24173	24174	24175
SI	Silica Gel	24180	24181	24182	24183	24184	24185
FLO	Florisil	24190	24191	24192	24193	24194	24195
ALN	Alumina (Neutral)	24200	24201	24202	24203	24204	24205
ALA	Alumina (Acidic)	24210	24211	24212	24213	24214	24215
ALB	Alumina (Basic)	24220	24221	24222	24223	24224	24225
DIO	Diol	24230	24231	24232	24233	24234	24235
COOH	Carboxylic Acid	24240	24241	24242	24243	24244	24245
SCX	Benzenesulfonic Acid	24250	24251	24252	24253	24254	24255
NH ₂	Aminopropyl	24260	24261	24262	24263	24264	24265
PSA	Pri/Sec Amino	24270	24271	24272	24273	24274	24275
DEA	Diethylamino	24280	24281	24282	24283	24284	24285
N+	Quaternary Amino	24290	24291	24292	24293	24294	24295

Spe-ed Flow

Enables Solid
Phase Extraction
for Samples
with Suspended
Solids

Spe-ed Flow

Spe-ed Flow cartridges are specially designed to allow for the fast, free-flowing direct addition of suspended solid laden samples into a SPE cartridge. The special frit configuration of the Spe-ed Flow cartridge acts as a pre-filter to prevent clogging.

Some Applications

Clinical/Drugs of Abuse - Whole Blood

- Direct addition of whole blood for drugs of abuse determinations
- Eliminate or minimize analyte degradation due to traditional whole blood processing

Pharmaceutical - Tissue Homogenates

- Measure drugs, hormones, proteins, and other analytes without filtering first

Biotech - Fermentation Broths

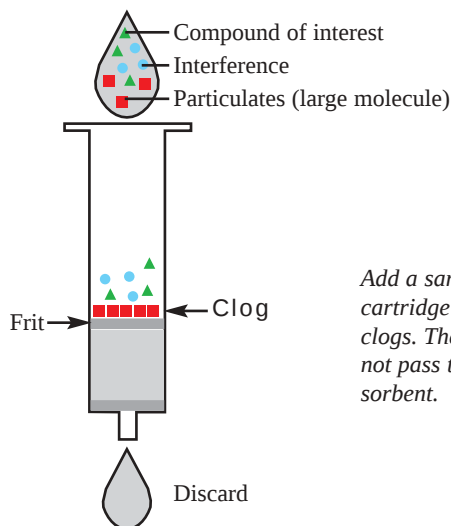
- Direct addition of fermentation liquors
- Improve yields, no spin down necessary
- Eliminate liquid/liquid extractions with more efficient SPE

Environmental - Waste Water

- Eliminate filtration
- No analyte loss due to analyte adsorption to the solid particles

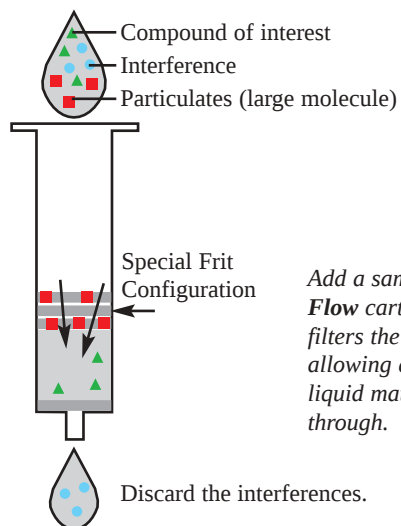


Spe-ed Flow cartridges can be packed in any size, with any sorbent.



Standard

Add a sample to a regular cartridge and the frit clogs. The analyte does not pass through the sorbent.



Spe-ed Flow

Add a sample to a **Spe-ed Flow** cartridge and the frit filters the suspended solids, allowing a path for the liquid matrix to flow through.

Spe-ed Flow

Cartridge Selection

Spe-ed Flow cartridges can be packed in **any size**, with **any sorbent**.

Items shown are merely representative. Please inquire.

Size	Qty/Box	Catalog Number
<i>Spe-ed</i> Flow ABN		
3mL	50	2723
6mL	30	2724
15mL LRC	30	2725
15mL LRC with cap	30	3725
<i>Spe-ed</i> Flow THC		
3mL	50	2619
6mL	30	2620
15mL LRC	30	2621
15mL LRC with cap	30	2622
<i>Spe-ed</i> Flow THC II		
3mL	50	2623
6mL	30	2624
15mL LRC	30	2625
15mL LRC with cap	30	2626

Combinatorial Chemistry Products

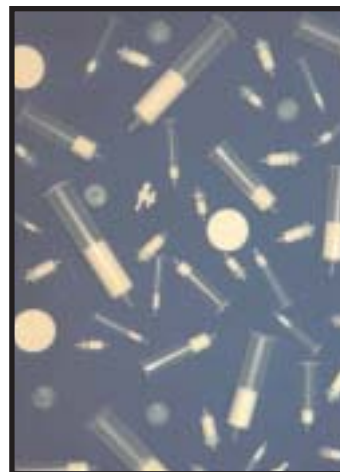
for Solid Phase Extraction

Combinatorial Chemistry Accessories

Many of our products are used by combinatorial chemistry laboratories. Places to find these products in our catalog include:

Accessories

- Find a full line of empty cartridges and fritted cartridges to use as reaction vessels.
- We offer caps and tips for all of our cartridges to seal off reaction vessels and to protect reactions from contamination.
- Check out the chemically inert PTFE stopcocks.
- We also have universal adaptors to stack reaction vessels.
- Frits of varying pore sizes are available in several materials, including PTFE.



Solid Phase Extraction Columns and 96-Well Plates

We offer a full line of sorbents and resins. The following is a list of popular combinatorial packing materials

SCX	Benzenesulfonic Acid
N+	Quaternary Amino
SI	Silica Gel
Alumina	(Available in acidic, basic and neutral)
Florisil®	
C18	Octadecyl
C8	Octyl
NH ₂	Aminopropyl

Bulk Sorbents and Resins

All of our sorbents and resins are available in bulk.

Custom Packing Services

We will pack a specified mass of your sorbents or ours in any size column. Please inquire. This can be a great opportunity to save time in your laboratory.

Method Development Kits

for Solid Phase
Extraction

Method Development Kits

Each Method Development Kit contains a sampling of sorbents for developing and optimizing sample preparation methods and procedures.



Method Development Kits

Non-Polar Kits

Non-Polar	Qty.	Description
#2550	12	C18 Octadecyl/14
100mg/1mL	12	C18 Octadecyl/18
\$80	12	C18 Octadecyl/22
48 cartridges	12	C18 Octadecyl/OH

Non-Polar	Qty.	Description
#2501	10	C18 Octadecyl/14
	20	C18 Octadecyl/18
500mg/3mL	10	C18 Octadecyl/22
50 cartridges	10	C18 Octadecyl/OH

Non-Polar	Qty.	Description
#2551	8	C18 Octadecyl/14
	8	C18 Octadecyl/18
500mg/6mL	8	C18 Octadecyl/22
32 cartridges	8	C18 Octadecyl/OH

Non-Polar	Qty.	Description
#2552	8	C18 Octadecyl/14
	8	C18 Octadecyl/18
1000mg/6mL	8	C18 Octadecyl/22
32 cartridges	8	C18 Octadecyl/OH

Non-Polar	Qty.	Description
#2553	4	C18 Octadecyl/14
	4	C18 Octadecyl/18
1000mg/12mL	4	C18 Octadecyl/22
16 cartridges	4	C18 Octadecyl/OH

Non-Polar	Qty.	Description
#2554	4	C18 Octadecyl/14
	4	C18 Octadecyl/18
5g/20mL	4	C18 Octadecyl/22
16 cartridges	4	C18 Octadecyl/OH

Moderate Non-Polar Kits

Moderate Non-Polar	Qty.	Description
#2557	12	C8 Octyl
	12	PH Phenyl
100mg/1mL	12	CH Cyclohexyl
36 cartridges		

Moderate Non-Polar	Qty.	Description
#2502	20	C8 Octyl
	20	PH Phenyl
500mg/3mL	10	CH Cyclohexyl
50 cartridges		

Moderate Non-Polar	Qty.	Description
#2558	8	C8 Octyl
	8	PH Phenyl
500mg/6mL	8	CH Cyclohexyl
24 cartridges		

Moderate Non-Polar	Qty.	Description
#2559	8	C8 Octyl
	8	PH Phenyl
1000mg/6mL	8	CH Cyclohexyl
24 cartridges		

Moderate Non-Polar	Qty.	Description
#2560	4	C8 Octyl
	4	PH Phenyl
1000mg/12mL	4	CH Cyclohexyl
12 cartridges		

Moderate Non-Polar	Qty.	Description
#2561	4	C8 Octyl
	4	PH Phenyl
5g/20mL	4	CH Cyclohexyl
12 cartridges		

Method Development Kits

Weak Non-Polar Kits

Weak Non-Polar	Qty.	Description
#2564	12	C4 Butyl
	12	C2 Ethyl
	12	C1 Methyl
100mg/1mL 48 cartridges	12	CNe Cyanopropyl (endcapped)

Weak Non-Polar	Qty.	Description
#2504	10	C4 Butyl
	10	C2 Ethyl
	10	C1 Methyl
500mg/3mL 50 cartridges	20	CNe Cyanopropyl (endcapped)

Weak Non-Polar	Qty.	Description
#2565	8	C4 Butyl
	8	C2 Ethyl
	8	C1 Methyl
500mg/6mL 32 cartridges	8	CNe Cyanopropyl (endcapped)

Weak Non-Polar	Qty.	Description
#2566	8	C4 Butyl
	8	C2 Ethyl
	8	C1 Methyl
1000mg/6mL 32 cartridges	8	CNe Cyanopropyl (endcapped)

Weak Non-Polar	Qty.	Description
#2567	4	C4 Butyl
	4	C2 Ethyl
	4	C1 Methyl
1000mg/12mL 16 cartridges	4	CNe Cyanopropyl (endcapped)

Weak Non-Polar	Qty.	Description
#2568	4	C4 Butyl
	4	C2 Ethyl
	4	C1 Methyl
5g/20mL 16 cartridges	4	CNe Cyanopropyl (endcapped)

Polar Kits

Polar	Qty.	Description
#2571	12	CN Cyanopropyl
	12	SI Silica
	12	FLO Florisil®
100mg/1mL 84 cartridges	12	ALN Alumina (Neutral)
	12	ALA Alumina (Acidic)
	12	ALB Alumina (Basic)
	12	DIO Diol

Polar	Qty.	Description
#2505	10	CN Cyanopropyl
	10	SI Silica
	10	FLO Florisil®
500mg/3mL 50 cartridges	5	ALN Alumina (Neutral)
	5	ALA Alumina (Acidic)
	5	ALB Alumina (Basic)
	5	DIO Diol

Polar	Qty.	Description
#2572	8	CN Cyanopropyl
	8	SI Silica
	8	FLO Florisil®
500mg/6mL 56 cartridges	8	ALN Alumina (Neutral)
	8	ALA Alumina (Acidic)
	8	ALB Alumina (Basic)
	8	DIO Diol

Polar	Qty.	Description
#2573	8	CN Cyanopropyl
	8	SI Silica
	8	FLO Florisil®
1000mg/6mL 56 cartridges	8	ALN Alumina (Neutral)
	8	ALA Alumina (Acidic)
	8	ALB Alumina (Basic)
	8	DIO Diol

Polar	Qty.	Description
#2574	4	CN Cyanopropyl
	4	SI Silica
	4	FLO Florisil®
1000mg/12mL 28 cartridges	4	ALN Alumina (Neutral)
	4	ALA Alumina (Acidic)
	4	ALB Alumina (Basic)
	4	DIO Diol

Polar	Qty.	Description
#2575	4	CN Cyanopropyl
	4	SI Silica
	4	FLO Florisil®
5g/20mL 28 cartridges	4	ALN Alumina (Neutral)
	4	ALA Alumina (Acidic)
	4	ALB Alumina (Basic)
	4	DIO Diol

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Method Development Kits

Ion-Exchange Kits

Ion-Exchange	Qty.	Description
#2578	12	COOH Carboxylic Acid
	12	SCX Benzenesulfonic Acid
	12	NH ₂ Aminopropyl
	12	PSA Primary/Secondary Amine
	12	DEA Diethylamino
	12	N ⁺ Quaternary Amino
100mg/1mL		
72 cartridges		

Ion-Exchange	Qty.	Description
#2581	4	COOH Carboxylic Acid
	4	SCX Benzenesulfonic Acid
	4	NH ₂ Aminopropyl
	4	PSA Primary/Secondary Amine
	4	DEA Diethylamino
	4	N ⁺ Quaternary Amino
1000mg/12mL		
24 cartridges		

Ion-Exchange	Qty.	Description
#2506	10	COOH Carboxylic Acid
	10	SCX Benzenesulfonic Acid
	10	NH ₂ Aminopropyl
	5	PSA Primary/Secondary Amine
	5	DEA Diethylamino
	10	N ⁺ Quaternary Amino
500mg/3mL		
50 cartridges		

Ion-Exchange	Qty.	Description
#2582	4	COOH Carboxylic Acid
	4	SCX Benzenesulfonic Acid
	4	NH ₂ Aminopropyl
	4	PSA Primary/Secondary Amine
	4	DEA Diethylamino
	4	N ⁺ Quaternary Amino
2.5g/20mL		
24 cartridges		

Ion-Exchange	Qty.	Description
#2579	8	COOH Carboxylic Acid
	8	SCX Benzenesulfonic Acid
	8	NH ₂ Aminopropyl
	8	PSA Primary/Secondary Amine
	8	DEA Diethylamino
	8	N ⁺ Quaternary Amino
500mg/6mL		
48 cartridges		

Ion-Exchange	Qty.	Description
#2583	4	COOH Carboxylic Acid
	4	SCX Benzenesulfonic Acid
	4	NH ₂ Aminopropyl
	4	PSA Primary/Secondary Amine
	4	DEA Diethylamino
	4	N ⁺ Quaternary Amino
5g/20mL		
24 cartridges		

Ion-Exchange	Qty.	Description
#2580	8	COOH Carboxylic Acid
	8	SCX Benzenesulfonic Acid
	8	NH ₂ Aminopropyl
	8	PSA Primary/Secondary Amine
	8	DEA Diethylamino
	8	N ⁺ Quaternary Amino
1000mg/6mL		
48 cartridges		




Custom kits
*containing varying sizes
 and combinations
 are also available.*



Method Development Kits

RP Resin Kits

RP101, 102, 103, 104, Advanta

RP Resins	Qty.	Description
	12	RP-101
#2585	12	RP-102
	12	RP-103
100mg/1mL	12	RP-104
60 cartridges	12	Advanta

RP Resins	Qty.	Description
	10	RP-101
#2587	10	RP-102
	10	RP-103
500mg/3mL	10	RP-104
50 cartridges	10	Advanta

RP Resins	Qty.	Description
	8	RP-101
#2589	8	RP-102
	8	RP-103
500mg/6mL	8	RP-104
40 cartridges	8	Advanta

RP Resins	Qty.	Description
	4	RP-101
#2591	4	RP-102
	4	RP-103
1000mg/12mL	4	RP-104
20 cartridges	4	Advanta

RP Resins	Qty.	Description
	4	RP-101
#2593	4	RP-102
	4	RP-103
2.5g/20mL	4	RP-104
20 cartridges	4	Advanta

RP Resin Kits

RP101, 102, 103, 104

RP Resins	Qty.	Description
	12	RP-101
#2586	12	RP-102
	12	RP-103
100mg/1mL	12	RP-104
48 cartridges		

RP Resins	Qty.	Description
	10	RP-101
#2588	10	RP-102
	10	RP-103
500mg/3mL	10	RP-104
40 cartridges		

RP Resins	Qty.	Description
	12	RP-101
#2590	12	RP-102
	12	RP-103
1000mg/6mL	12	RP-104
48 cartridges		

RP Resins	Qty.	Description
	4	RP-101
#2592	4	RP-102
	4	RP-103
1000mg/12mL	4	RP-104
16 cartridges		

RP Resins	Qty.	Description
	4	RP-101
#2594	4	RP-102
	4	RP-103
2.5g/20mL	4	RP-104
16 cartridges		

Accessories

Empty Cartridges
Frits
Filters
Syringe Plungers
Adaptors
Caps & Tips
Stopcocks

See Section 8 for
detailed listings.

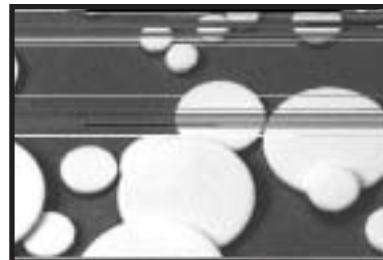
Accessories

Applied Separations offers a variety of SPE accessories including medical grade polypropylene cartridges, frits, filters, syringe plungers, adaptors, and stopcocks.

The polypropylene cartridges are available in sizes ranging from 1mL to 150mL. Mini*Spe-ed*, and large reservoir cartridges (LRC). These cartridges may be purchased empty or with frits.

Separate frits of assorted materials are also available in order to meet individual extraction needs. Syringe plungers are sold separately for manual extraction.

These accessories, used separately, or in combination, result in customized extraction columns for use in all solid phase extraction procedures.



Spe-ed Matrix

for Solid Phase
Extraction

Spe-ed Matrix

Spe-ed Matrix is a modified form of diatomaceous earth that can be packed into any fritted *Spe-ed* SPE cartridge for use as a support in sample preparation.

Spe-ed Matrix is also ideal for use in supercritical fluid extraction.



Bulk Sorbents

for Solid Phase
Extraction



Sorbent		Catalog Number		
Standard <i>Spe-ed</i> Cartridges		100g	500g	1Kg
C18	Octadecyl C18/14%	4100	4132	4162
C18	Octadecyl C18/18%	4101	4133	4163
C18	Octadecyl C18/22%	4102		4164
C18	Octadecyl C18/OH	4103	4135	4165
C8	Octyl	4104	4136	4166
PH	Phenyl	4105	4137	4167
CH	Cyclohexyl	4106	4138	4168
C4	Butyl	4107	4139	4169
C2	Ethyl	4108	4140	4170
C1	Methyl	4109	4141	4171
CNe	Cyanopropyl (endcapped)	4110		4172
CN	Cyanopropyl	4118	4142	4177
SI	Silica Gel	4111	4143	4173
FLO	Florisil	4112	4144	4174
ALN	Alumina (Neutral)	4113	4145	4189
ALA	Alumina (Acidic)	4114	4146	4190
ALB	Alumina (Basic)	4115	4147	4191
DIO	Diol	4116	4148	4175
COOH	Carboxylic Acid	4119	4151	4178
SCX	Benzenesulfonic Acid	4120	4152	4179
NH ₂	Aminopropyl	4121	4153	4180
PSA	Pri/Sec Amino	4123	4154	4181
DEA	Diethylamino	4124	4155	4182
N ⁺	Quaternary Amino	4125	4156	4183