

Disk SPE Formats

Bond Elut SPEC SPE

Using an advanced disk design, Bond Elut SPEC delivers superior flow characteristics and trouble-free automation. Due to the low volume of the extraction bed, very low elution volumes can be used. This means that, in some applications, the evaporation and reconstitution steps can be eliminated, resulting in accelerated sample processing times. The combination of low bed masses, ultraclean base materials, and a broad toolbox of selectivities delivers higher recoveries, free of the matrix interferences that can cause ion suppression.

SPEC provides high recoveries at low elution volumes—as low as 100 μL . This is due to the high surface area yet small physical volume of the monolithic disk. Overall, extraction efficiency is very high for this format of sample preparation product, and the range of functionalities allows fast method development. SPEC extraction methods are typically shorter and require less reagent and solvent than other SPE methods, for lower costs and greener operation.

Unique phases available in SPEC 96-well and SPE tube formats

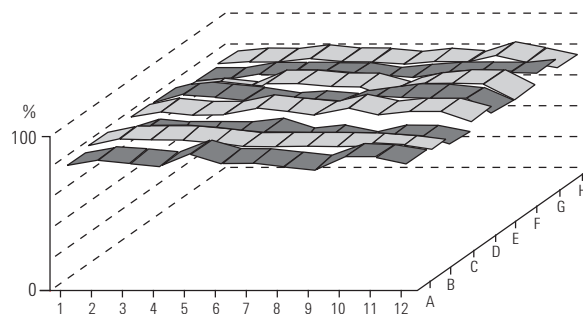
Uniform recovery and reproducibility between wells from the same well plate

- **DAU**—This functionalized SPEC disk is designed for the forensic analysis of drugs in urine. Its unique sorbent chemistry results in excellent sample cleanup and concentration of samples before GC/MS and LC/MS.
- **MP1**—SPEC MP1 is a mixed mode, nonpolar/SCX monolithic disk, ideal for analytes with polar functional groups in plasma. The dual retention mechanism results in cleaner extracts. The SCX functionality strongly binds polar basic analytes, allowing rigorous washing steps to be employed. Bond Elut Certify offers similar selectivity to SPEC MP1.
- **MP3**—SPEC MP3 is slightly more polar than MP1, making it ideal for hydrophobic analytes that would bind too strongly to MP1. MP3 chemistry is particularly suited to the extraction of opiate alkaloids from biological fluids.

NOTE: The high recovery (y axis) has an average deviation across the 96 wells of just 3.2 % (well positions are shown on the x and z axes). SPEC provides the predictable flow characteristics analysts require for true walk-away automated processing. With SPEC, you do not need to worry about clogging, and as an added benefit, the typically low vacuum pressure requirement prevents cross-talk (for example, spraying of fast running eluates between wells in the collection plate).



SPEC 47 mm disks and SPEC SPE cartridges, A74702



SPEC 96-Well Plates

When used on an automated platform, SPEC 96-well plates offer outstanding flow characteristics. Flow across all 96-well plates is uniform and highly reproducible, meaning your recoveries are too.



SPEC 96-well plate

SPEC 96-Well Plates

Description	Part No.
Silica-Based Sorbents	
C18	A59603
C18AR, 15 mg	A59619
C18AR, 30 mg	A5960330
C2	A59601
C8	A59602
CN	A59606
DAU	A596DAU
NH2	A59607
Phenyl	A59610
Ion Exchange Sorbents	
SAX	A59605
SCX	A59604
Mixed Mode Sorbents	
MP1	A59611
C8	A59602
Method Development Plate	
C2, C8, C18, C18AR, CN, MP1, MP3, PH	A59630



SPEC SPE C18 cartridges, A5320320

SPEC SPE Cartridges

SPEC functionalities are also available in a standard straight barrel tube format, offering flexibility in sample size.

SPEC SPE Cartridges, 100/pk

Sorbent Phase	Description	Part No.
C18	15 mg, 3 mL	A5320320
	30 mg, 3 mL	A5320330
C18AR	15 mg, 3 mL	A5321920
	30 mg, 3 mL	A5321930
	35 mg, 10 mL	A5021935
C18AR/MP3	70 mg, 10 mL	A5022570
C2	30 mg, 3 mL	A5320130
C8	15 mg, 3 mL	A5320220
	30 mg, 3 mL	A5320230
DAS	15 mg, 3 mL	A532DAS
DAU	15 mg, 3 mL	A532DAU
MP1	15 mg, 3 mL	A5321120
	30 mg, 3 mL	A5321130
	35 mg, 10 mL	A5021135
	70 mg, 10 mL	A5021170
MP3	15 mg, 3 mL	A5322020
	30 mg, 3 mL	A5322030
	35 mg, 10 mL	A5020735
NH2	15 mg, 3 mL	A5320720
	70 mg, 10 mL	A5020770
Phenyl	15 mg, 3 mL	A5321020
	30 mg, 3 mL	A5321030
SAX	15 mg, 3 mL	A5320520
	30 mg, 3 mL	A5320530
	35 mg, 10 mL	A5020535

SPEC Disks and Accessories

Description	Part No.
SPEC disks, C18AR, 47 mm, 20/pk	A74819
SPEC disks, C8, 47 mm, 24/pk	A74702
SPEC environmental disk holder, 47 mm	A713
SPEC flask, 1 L, male 40/35 ground glass fitting	A714