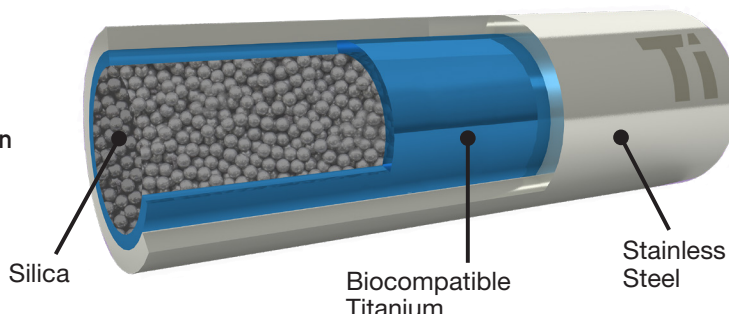


Advance Oligonucleotide Method Development with the NEW bioZen Oligo Column



Increased Recovery and Reproducibility with NEW bioZen Oligo

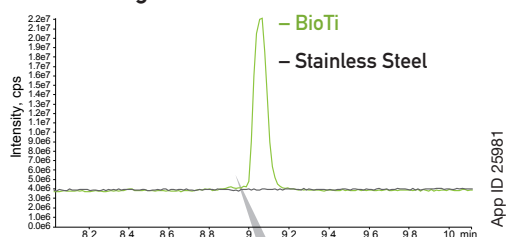
- BioTi™ Hardware Reduces Sample Loss and Adsorption
- Robustness at High pH and Temperature
- Core-Shell Advantage for High Efficiency



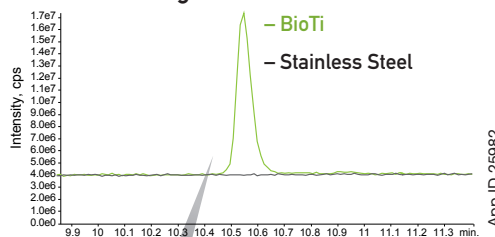
BioTi versus Traditional Stainless Steel Hardware

Oligos can chelate to trace heavy metals in stainless steel column hardware, leading to poor recovery, inconsistent chromatography and problematic carryover. The bioZen Oligo bio-inert hardware provides greater sensitivity as well as improved recovery, demonstrating this columns optimal utility for oligonucleotide characterization and quantitation.

BNA, 12.5 ng

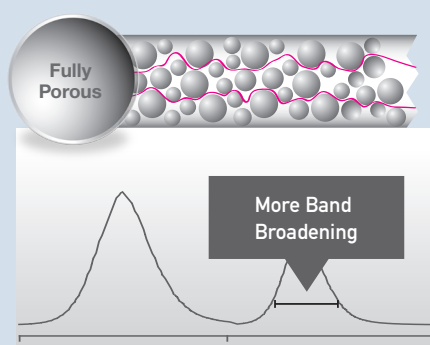
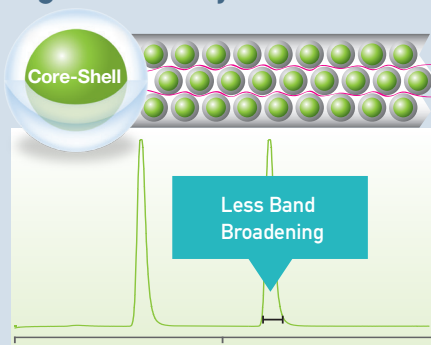


5amC12, 12.5 ng



Complete adsorption of oligos with lower (12.5 ng) mass loads on stainless steel column

High Efficiency Core-Shell Particle



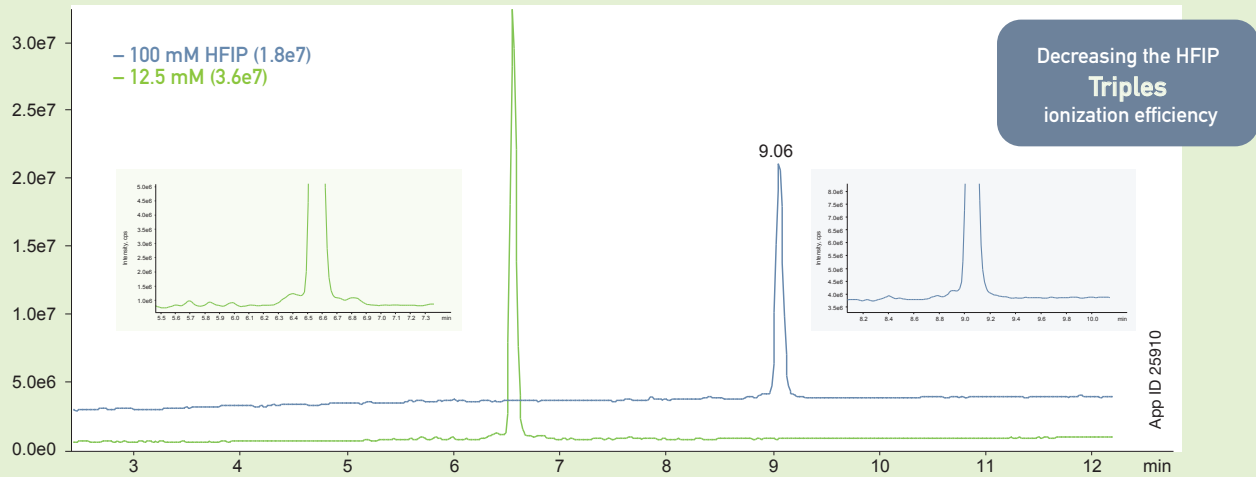
For an increase in resolution, along with faster and more consistent results, our scientists create a durable, homogeneous spherical porous shell with uniform pores that is grown on a solid silica core.

Better Performance than Fully Porous Particles

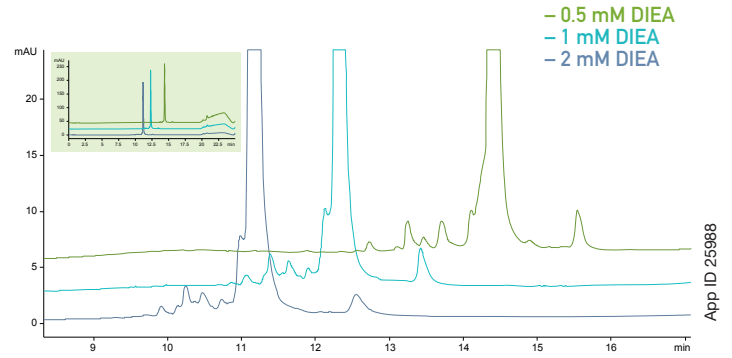
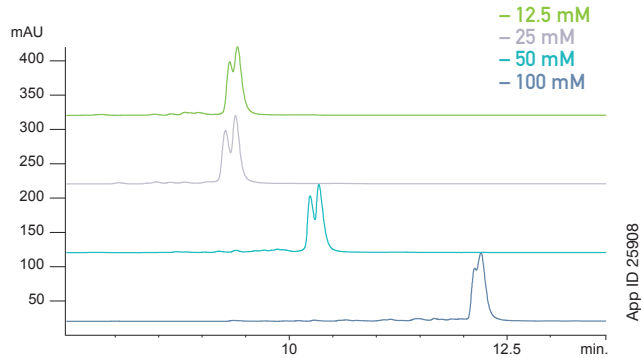


Mobile Phase Optimization for Oligonucleotide with bioZen Oligo

Effect of HFIP on Ionization Efficiency

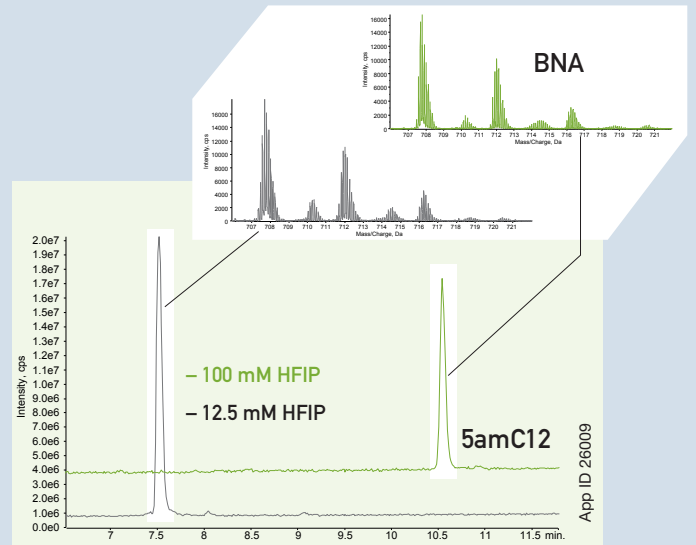
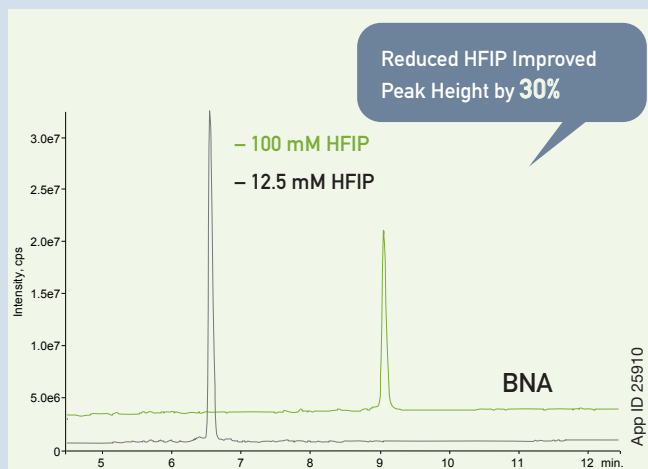


Effect of HFIP Concentration on siRNA



Improved separation of sense/antisense of an siRNA when decreasing HFIP concentration

Effect of HFIP on Oligo Peak Shape and Recovery



Interested in learning more about these applications?



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Ordering Information

bioZen™ Products - Powered by Biocompatible Hardware

bioZen Columns (mm)									Biocompatible Guard Cartridges		
	50 x 2.1	100 x 2.1	150 x 2.1	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	300 x 4.6	for 2.1 mm	for 4.6 mm	Holder
									3/pk		ea
bioZen 2.6 μm Glycan	00B-4773-AN	00D-4773-AN	00F-4773-AN	—	—	—	—	—	AJ0-9800	—	AJ0-9000
									3/pk		ea
bioZen 1.6 μm Peptide PS-C18	00B-4770-AN	00D-4770-AN	00F-4770-AN	—	—	—	—	—	AJ0-9803	—	AJ0-9000
									10/pk	10/pk	ea
bioZen 3 μm Peptide PS-C18	00B-4771-AN	—	00F-4771-AN	00B-4771-E0	—	00F-4771-E0	—	—	AJ0-7605	AJ0-7606	KJ0-4282
									3/pk		ea
bioZen 1.7 μm Peptide XB-C18	00B-4774-AN	00D-4774-AN	00F-4774-AN	—	—	—	—	—	AJ0-9806	—	AJ0-9000
									3/pk	3/pk	ea
bioZen 2.6 μm Peptide XB-C18	00B-4768-AN	00D-4768-AN	00F-4768-AN	00B-4768-E0	—	00F-4768-E0	—	—	AJ0-9806	AJ0-9808	AJ0-9000
									3/pk	3/pk	ea
bioZen 2.6 μm WidePore C4	00B-4786-AN	00D-4786-AN	00F-4786-AN	00B-4786-E0	00D-4786-E0	00F-4786-E0	00G-4786-E0	—	AJ0-9816	AJ0-9818	AJ0-9000
									3/pk	3/pk	ea
bioZen 3.6 μm Intact XB-C8	00B-4766-AN	00D-4766-AN	00F-4766-AN	00B-4766-E0	—	00F-4766-E0	—	—	AJ0-9812	AJ0-9814	AJ0-9000
	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	300 x 4.6	for 4.6 mm	Holder
										3/pk	ea
bioZen 1.8 μm SEC-2	00B-4769-AN	—	00F-4769-AN	—	—	—	00F-4769-E0	—	00H-4769-E0	AJ0-9850	AJ0-9000
bioZen 1.8 μm SEC-3	00B-4772-AN	—	00F-4772-AN	—	—	00D-4772-E0	00F-4772-E0	—	00H-4772-E0	AJ0-9851	AJ0-9000
										10/pk	ea
bioZen 6 μm WCX	00B-4777-AN	00D-4777-AN	00F-4777-AN	00G-4777-AN	00B-4777-E0	00D-4777-E0	00F-4777-E0	00G-4777-E0	—	AJ0-9400	KJ0-4282
	50 x 2.1	100 x 2.1	150 x 2.1	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6			for 2.1 mm	Holder
										3/pk	ea
bioZen 2.6 μm Oligo	00B-4790-AN	00D-4790-AN	00F-4790-AN	00B-4790-E0	00D-4790-E0	00F-4790-E0	—	—	AJ0-9820	AJ0-9822	AJ0-9000
bioZen 1.7 μm Oligo	00B-4791-AN	00D-4791-AN	00F-4791-AN	—	—	—	—	—	AJ0-9820	AJ0-9822	AJ0-9000

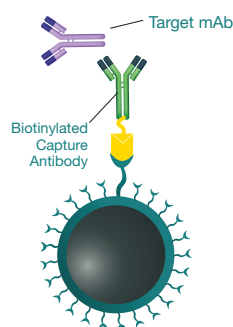
Sample Preparation

bioZen Solid Phase Extraction	Format	Sorbent Mass	Part Number	Unit
bioZen N-Glycan Clean-Up	Microelution 96-Well Plate	5 mg/well	8M-S009-NGA	1/box



bioZen MagBeads Streptavidin Coated

Formats	Part No.	Concentration	Bead Size
25 mg (≈50 samples)	KSO-9531	20 mg/mL	1.0 μm
50 mg (≈100 samples)	KSO-9532		
500 mg (≈1000 samples)	KSO-9533		



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