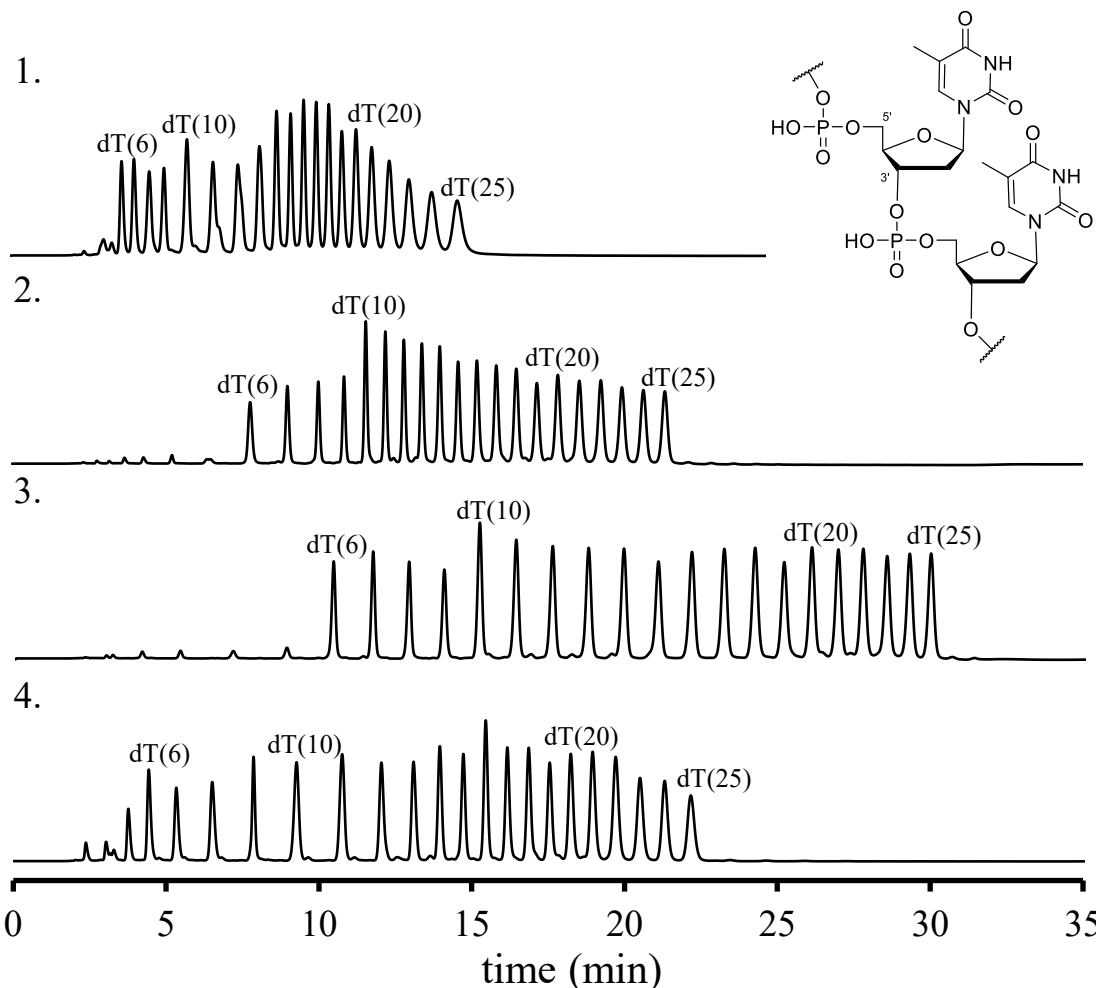


SHINWA EXPRESS *Application*

V O L. 250

Analysis of Oligo-deoxythymidine using the ULTRON AF-HILIC-CD

“Effect of the type of salt and ionic strength in the mobile phase”



Column: ULTRON AF-HILIC-CD (2 μ m)
 Column size: 150 mmL x 2.0 mm I.D.
 Flow rate: 0.15 mL/min
 Column temp.: 30°C
 Detection: UV-260 nm
 Sample: Oligo deoxythymidine, 6-25 mer
 Diluent: CH₃CN/TE buffer* = 70/30
 * TE buffer = 10 mM Tris-HCl buffer pH 8.0 +
 1 mM EDTA buffer pH 8.0
 Injection vol.: 0.5 μ L

Mobile phase: 1. A) CH₃CN
 B) 20 mM CH₃CO₂NH₄
 30-33 %B(0-3 min), 33 %B(3-20 min), 30 %B(20-40 min)
 2. A) CH₃CN
 B) 50 mM CH₃CO₂NH₄
 30-36 %B(0-6 min), 36-40 %B(6-27min), 30 %B(27-40 min)
 3. A) CH₃CN
 B) 100 mM CH₃CO₂NH₄
 30-36 %B(0-6 min), 36-42 %B(6-27min), 30 %B(27-40 min)
 4. A) CH₃CN/20 mM KH₂PO₄-K₂HPO₄(pH 6.5) = 70/30
 B) CH₃CN/20 mM KH₂PO₄-K₂HPO₄(pH 6.5) = 30/70
 0-9 %B(0-8 min), 9-12 %B(8-30min), 0 %B(30-40 min)



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● Features of the ULTRON AF-HILIC-CD

1. ULTRON AF-HILIC-CD is a HILIC column in which β -cyclodextrin is chemically bonded to a silica gel via a spacer.
2. The column has high selectivity for molecular structure.
3. The column shows high resolution analysis for structural analogues and structural isomers.
4. The column is suitable for sugar analysis by suppressing schiff base formation and anomer separation.

■ Analytical column specifications ■

ULTRON AF-HILIC-CD

Product name	Particle size (μm)	Column dimensions Length x I.D. (mm)	
ULTRON AF-HILIC-CD	2	50×2.0	
		50×3.0	
		100×2.0	
		100×3.0	
		150×2.0	
		150×3.0	
ULTRON AF-HILIC-CD (PLSS)※ ※ PLSS: PEEK-Lined Stainless steel		50×2.0	
		100×2.0	
		150×2.0	
ULTRON AF-HILIC-CD (Two Guard Cartridges)			5×2.0
ULTRON AF-HILIC-CD	5	100×2.0	
		100×4.6	
		150×2.0	
		150×4.6	
		250×2.0	
		250×4.6	
ULTRON AF-HILIC-CD.G			10×4.0
ULTRON AF-HILIC-CD (Two Guard Cartridges)			5×2.0
			10×4.6
Holder for Guard Cartridge (with Coupler)		-	For 5×2.0 mm column
	For 10×4.6 mm column		

ULTRON AF-HILIC-DA

Product name	Particle size (μm)	Column dimensions Length x I.D. (mm)
ULTRON AF-HILIC-DA	5	100×2.0
		100×4.6
		150×2.0
		150×4.6
		250×4.6
ULTRON AF-HILIC-DA (Two Guard Cartridges)		5×2.0
		10×4.6
Holder for Guard Cartridge (with Coupler)	-	For 5×2.0 mm column
		For 10×4.6 mm column

※ Please do not hesitate to contact us for the other dimensions.
Please feel free to contact us with questions related to analyses.
Column screening services are also available.

Please be aware that specifications and prices are subject to change without prior notification.