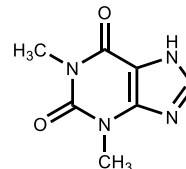


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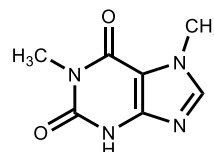
Application
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Analysis of positional isomers of methyl group using the ULTRON AF-HILIC-CD

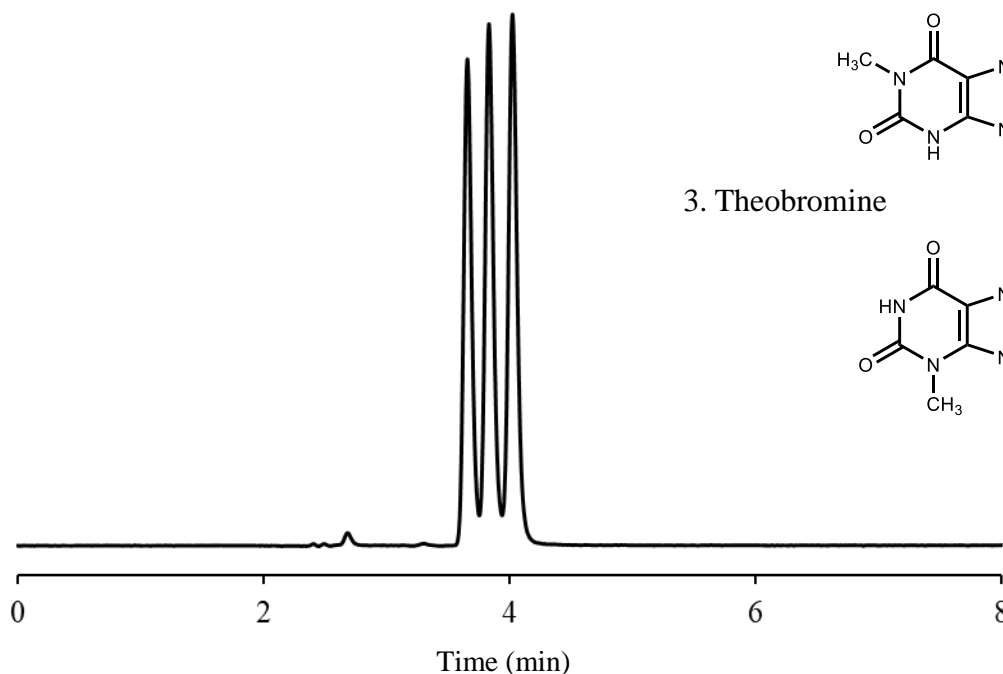
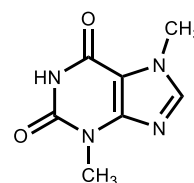
1. Theophylline



2. 1,7-Dimethylxanthine



3. Theobromine



Column: ULTRON AF-HILIC-CD (2 μ m)
 Column size: 150 mm L x 2.0 mm I.D.
 Mobile phase: 10 mM $\text{CH}_3\text{CO}_2\text{NH}_4$ (pH 6.8)/ CH_3CN = 13/87

Column temp.: 30°C
 Flow rate: 0.15 mL/min
 Injection vol.: 1.0 μ L
 Detection: UV-254 nm

● 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 (2 µm)

Product name	Particle size (µm)	Column dimensions Length × I.D. (mm)
ULTRON AF-HILIC-CD	2	50 × 2.0
		100 × 2.0
		150 × 2.0
		50 × 3.0
		100 × 3.0
		150 × 3.0
ULTRON AF-HILIC-CD (PLSS*)		50 × 2.0
		100 × 2.0
		150 × 2.0
ULTRON AF-HILIC-CD (Two Guard Cartridges)		5 × 2.0
Holder for Guard Cartridge (with Adaptor)	For 5 × 2.0 mm column	

* PLSS: PEEK-Lined stainless steel column

ULTRON AF-HILIC-CD

Product name	Particle size (µm)	Column dimensions Length × I.D. (mm)
ULTRON AF-HILIC-CD	5	100 × 2.0
		150 × 2.0
		100 × 4.6
		150 × 4.6
		250 × 4.6
		10 × 4.0
ULTRON AF-HILIC-CD.G		5 × 2.0
ULTRON AF-HILIC-CD (Two Guard Cartridges)		10 × 4.6
Holder for Guard Cartridge (with Adaptor)	For 5 × 2.0 mm column	
	For 10 × 4.6 mm column	

ULTRON AF-HILIC-DA

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