

Products

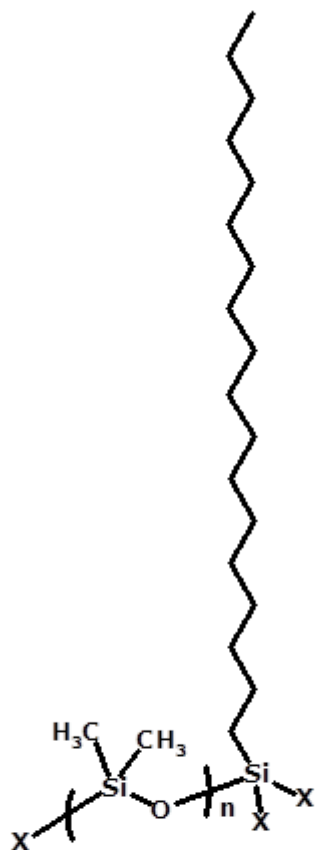
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Sunniest

Developed a new bonded phase made with unique end capping!

This special C18 reagent consists of C18 chain part and endcapping part like an arm. An arm of this reagent moves like a Geometrid caterpillar, so that a functional group on the tip of the arm can bond with a silanol group which is located anywhere.

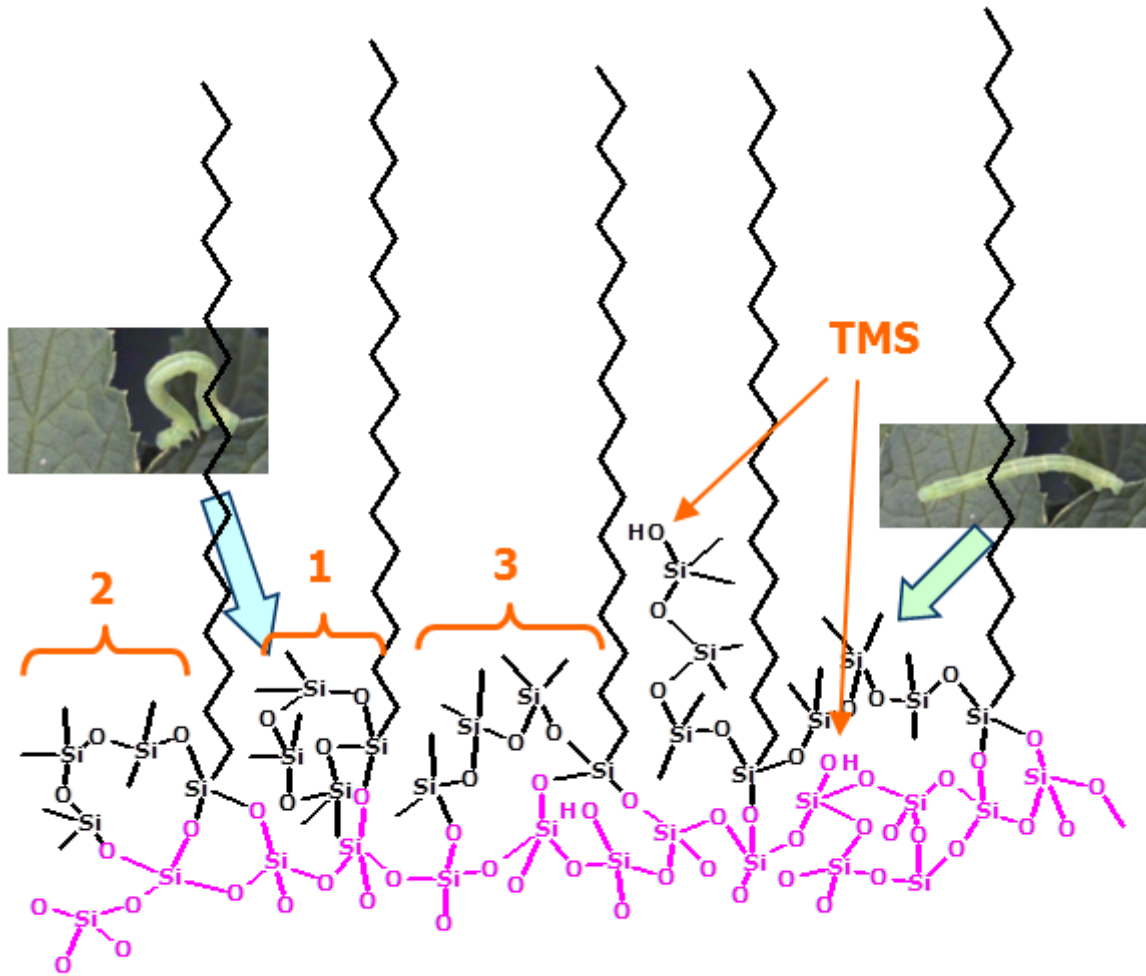
After bonding this unique C18 reagent an end-capping is densely done with trimethylsilane (TMS) using SAC technique.⁽¹⁾



n: 1, 2 , 3 or 4

X: Cl, OCH₃, OCH₂CH₃ etc.

Novel C18 reagent



Schematic diagram of bonding of novel silyl-reagent on silica surface

(1)SAC technique is developed by Chromanik Technologies Inc. for Sunrise C18-SAC is an operation technique that silanol groups are converted into asiloxane bond under high temperature conditions.

Features of Sunniest

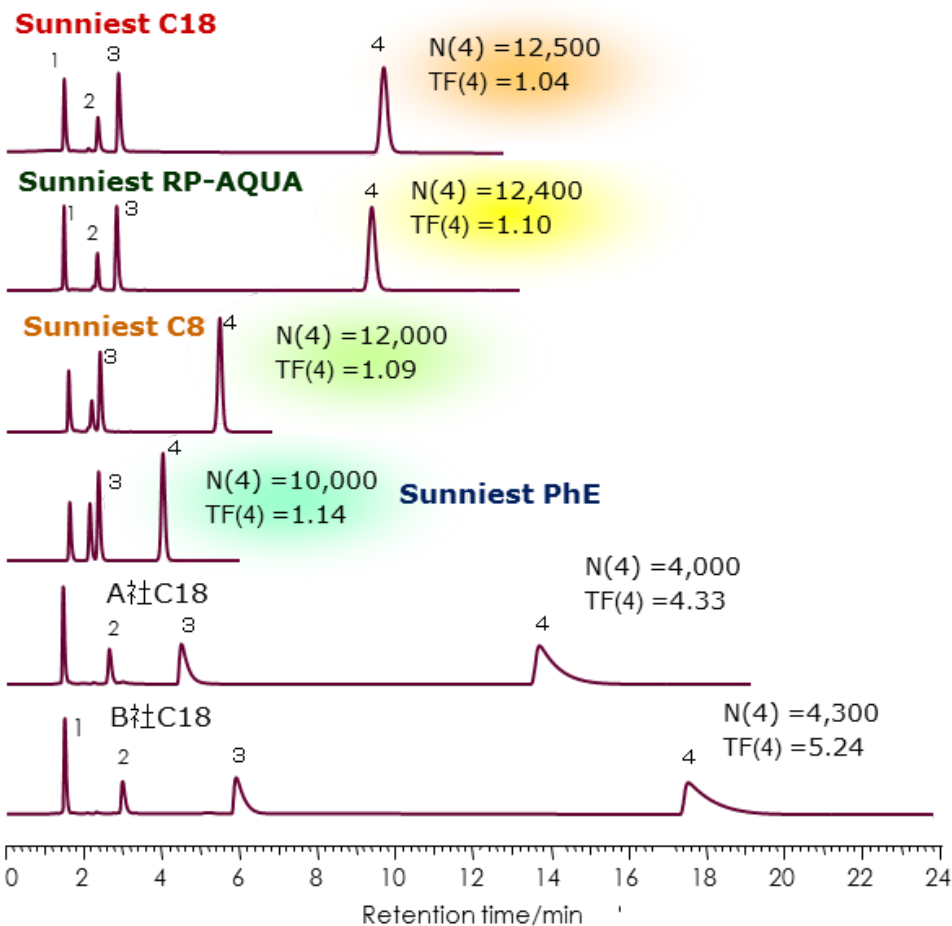
- ▣ Little influence of silanol groups, acidic and basic compounds show a symmetrical peak sharp!
- ▣ Rich lineup! various length and inner diameter of 2 ~ 20mm. (To the list) ([./Sunniest_list_en.html](#))

Lineup

Particle	USP L No.	Particle size (µm)	Bonding	Characteristic
C18	L1	3, 5	C18	First Choice
C18-HT	L1	2	C18	High-throughput analysis
RP-AQUA	L62	3, 5	C28	100% aqueous mobile phase is available

Particle	USP L No.	Particle size (µm)	Bonding	Characteristic
C8	L7	3, 5	C8	For high-speed analysis of low-polar compounds
PhE	L11	3, 5	Phenylethyl	Analysis of separation of aromatic compounds
PFP	L43	5	Pentafluorophenyl	Analysis for structural isomers and halide

Evaluation of the end-capping




Amitriptyline peak becomes a tailing peak by influence of residual silanol groups and many HPLC manufacturers use amitriptyline as an index of the amount of silanol groups. We evaluated the amount of residual using amitriptyline.

It is generally known that a peak tailing for a basic compound occurs more using acetonitrile in the mobile phase than using methanol although methanol has been used as an organic solvent in the mobile phase for separating basic compounds.


Sunniest C18, RP-AQUA, C8 showed sharp peaks without tailing even with acetonitrile. In other words, the Sunniest C18, RP-AQUA, C8 column, without the use of organic solvent is limited, can be set to a wide range of mobile phase conditions, you can construct an optimum separation conditions for all of the components.

Sunniest Lineup  ([./file/Sunniest_list.pdf](#))

Catalog  pdf ([../..pdf/Sunniest_catalog_en.pdf](#))

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