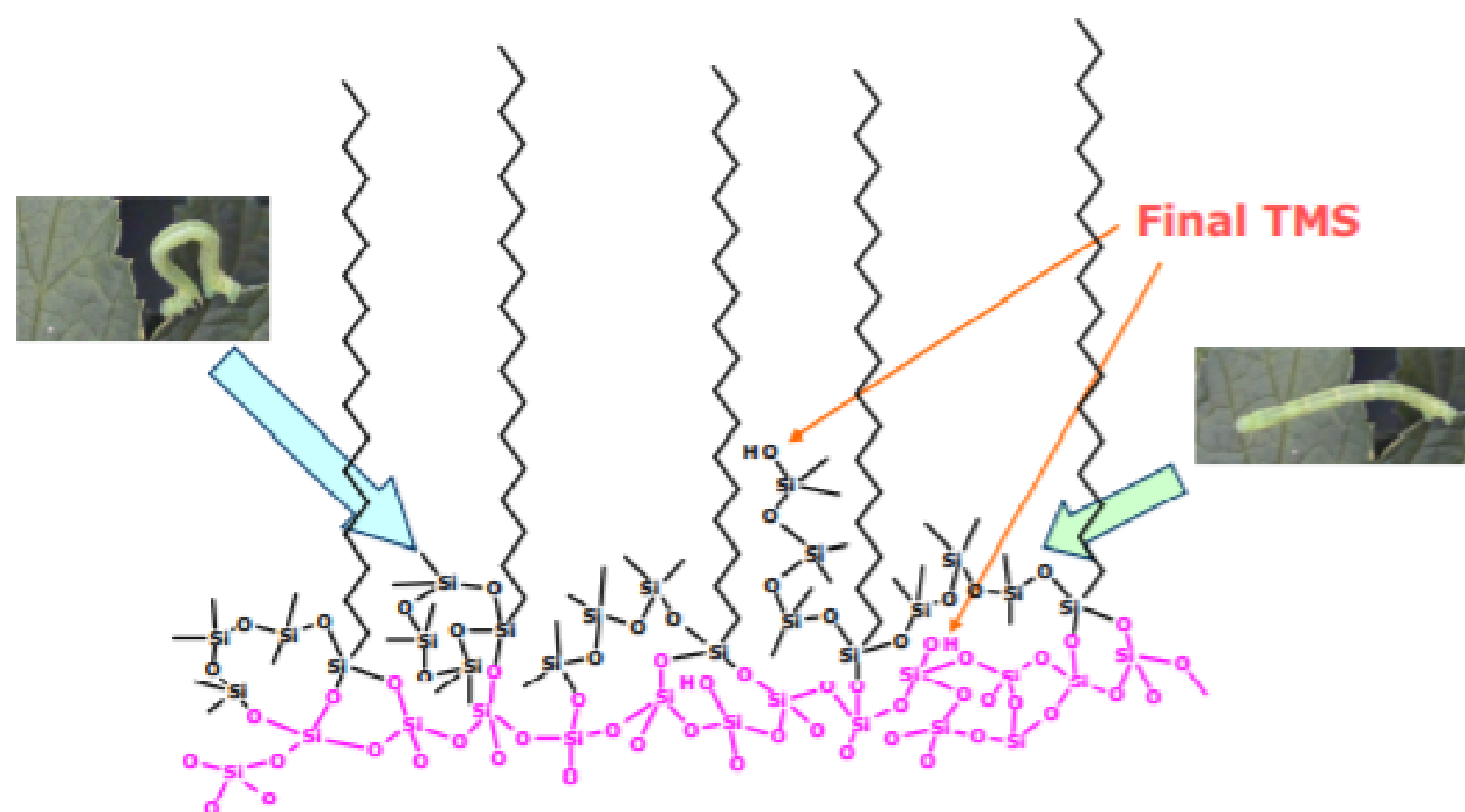


Bonding state of Sunniest C18 on silica



A unique trifunctional silyl reagent was developed as shown in Figure 1. This silyl reagent can bond with any silanol group on the silica surface as shown in Figure 2 because it can expand and contract on its own. This technique reduces the residual silanol groups to almost none on the C18 stationary phase. Finally, end-capping was done with trimethylsilyl-reagent (TMS). This makes the Chromanik Sunniest and SunShell columns provide advantages that include: The least amount of peak tailing for basic compounds. High Stability