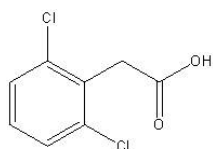
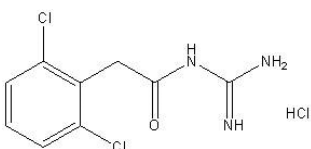


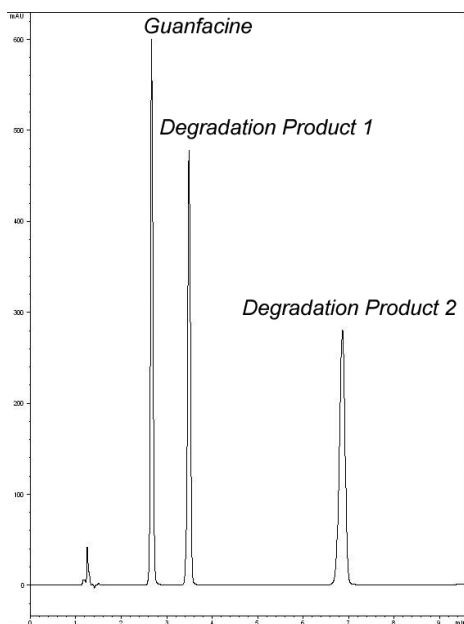
Stable Method and Column with Ion Pair Reagents Guanfacine HCl and Degradants



Degradant



Guanfacine



Method Conditions

Column:	Cogent Bidentate C8™, 4µm, 100Å
Catalog No.:	40008-15P
Dimensions:	4.6 x 150 mm
Mobile phase:	30% Acetonitrile, 70% DI Water w/Conc Phosphoric Acid (1mL/L), 1 g/L SDS
Flow rate:	1.5 mL/min
Peaks:	1. Guanfacine 2. Primary Degradant 1 3. Primary Degradant 2
Injection Volume:	20 µL
Detection:	UV 220 nm
Temperature:	25°C

Discussion

The US Pharmacopeia lists several known degradation products for Guanfacine. This figure shows a separation of a degraded Guanfacine drug substance. This method produces very efficient results but what is important to note is that this column is extremely stable under the very aggressive mobile phase conditions needed. Using columns based on silica hydride instead of ordinary silica offers not only stability but great compatibility with SDS (sodium dodecyl sulfate) and other ion pair reagents.

Note: Guanfacine can be used to control high blood pressure by reducing the heart rate and relaxing blood vessels but also is prescribed for ADD and ADHD and sometimes for post-traumatic stress syndrome. Guanfacine has been known to reduce nightmares and flashbacks.

For more information visit www.MTC-USA.com

Cat. No.	Description
40008-15P	Cogent Bidentate C8™ HPLC Column, 4mm, 100A, 4.6mm x 150mm