

Ticagrelor Analyzed with HPLC – AppNote

A Reproducible Method for Detection of this Blood Clot Preventative

Click [HERE](#) for Column Ordering Information.

A rapid, sensitive, and Reproducible Method has been developed for analysis of Ticagrelor. The data below, (*overlay of 5 chromatograms*) illustrates how the compound can be adequately Retained and detected using a simple Gradient in Reversed Phase HPLC. The Method demonstrates good Peak Shape and run-to-run Precision with RSD values less than 0.3%.

A Phenyl ring in the Column Stationary Phase provides beneficial π - π Interaction with the Analyte making possible the use of a very simple, Mass Spec friendly Mobile Phase with Formic Acid as an additive.



5 Injections of Ticagrelor Overlay



Method Conditions

Column: Cogent Phenyl Hydride™, 4 μ m, 100Å

Catalog No.: [69020-10P-2](#)

Dimensions: 2.1mm x 100mm

Mobile Phase:

A: DI Water with 0.1% Formic Acid (v/v)

B: Acetonitrile with 0.1% Formic Acid (v/v)

Gradient:

Time (minutes)	%B
0	40
1	40
5	85
6	85
7	40
10	40

Injection vol.: 1 μ L

Flow rate: 0.2mL / minute

Detection: UV @ 254nm

Sample Preparation: 2.0mg / mL Ticagrelor standard solution in Methanol.

Notes: Ticagrelor is an oral prescription indicated for treatment of acute ischemic stroke, coronary artery disease and acute coronary syndrome.

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HPLC Columns™

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com