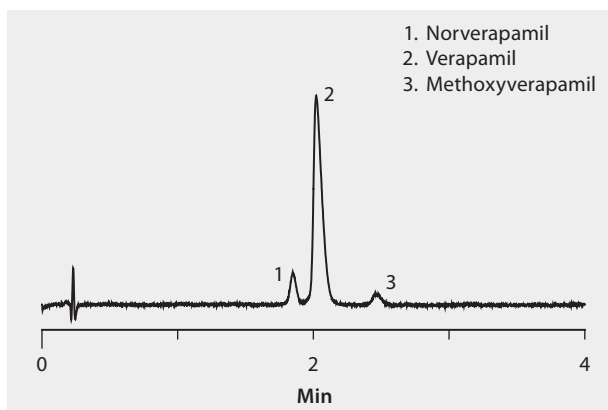


## UHPLC Analysis of Verapamil and Metabolites on Titan™ C18

Verapamil is prescribed to treat high blood pressure, severe chest pain (angina), and irregular heartbeat (arrhythmia). It is therefore of clinical and pharmaceutical interest. Shown here is the rapid analysis of verapamil on a Titan C18 UHPLC column. Fluka LC-MS CHROMASOLV solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| market focus    | Pharmaceutical (small molecule)                                                 |
| column          | Titan C18 5 cm x 2.1 mm, 1.9 µm particles (577122-U)                            |
| mobile phase    | [A] 10 mM potassium phosphate, monobasic pH 3.0; [B] acetonitrile; (70:30, A:B) |
| flow rate       | 0.6 mL/min                                                                      |
| pressure        | 4290 psi (296 bar)                                                              |
| column temp.    | 35 °C                                                                           |
| detector        | UV, 200 nm                                                                      |
| injection       | 1 µL                                                                            |
| sample          | 10 µg/mL in 70:30, water:methanol                                               |
| Application No. | G006284                                                                         |



### Related Products

#### analytical column

Titan™ C18 UHPLC Column, 1.9 micron ([Supelco 577122-U](#))

#### mobile phase component

Acetonitrile ([Fluka 14261](#))

Potassium phosphate monobasic ([Fluka 60216](#))

Water ([Fluka 14263](#))

#### standard

(±)-Methoxyverapamil hydrochloride ([Sigma M5644](#))

(±)-Norverapamil hydrochloride ([Sigma V108](#))

Verapamil hydrochloride solution ([Cerilliant V-002](#))