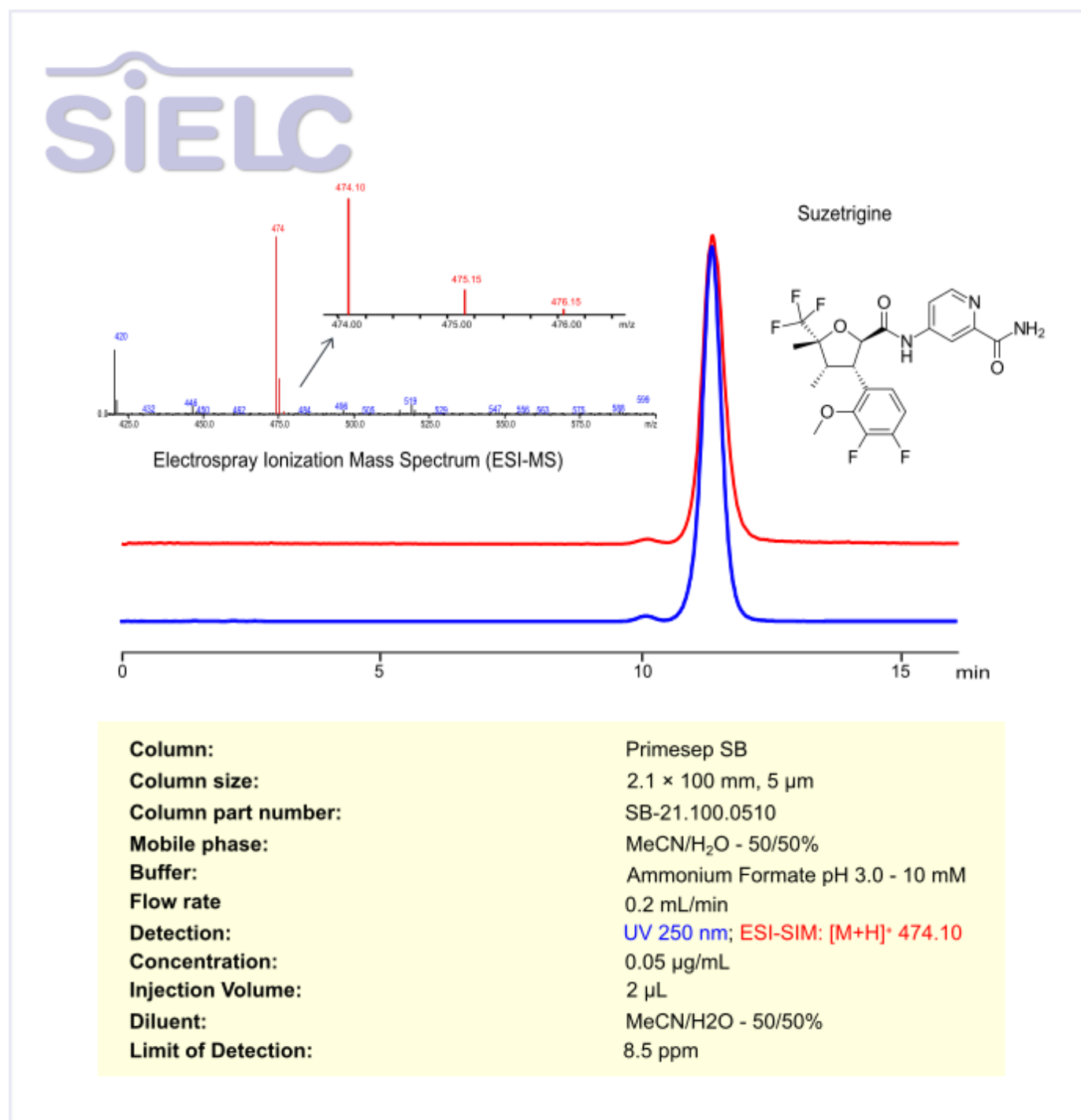


# HPLC-MS Method for Analysis of Suzetrigine on Primesep SB Column

<https://sielc.com/hplc-method-for-analysis-suzetrigine-primesep-sb>

## Chromatogram



## Description

· HPLC Method for Analysis of Suzetrigine on Primesep SB Column by SIELC Technologies

Suzetrigine is a selective NaV1.8 sodium channel inhibitor designed for pain management. By targeting peripheral sensory neurons, it reduces pain transmission while minimizing central nervous system effects. Its unique selectivity and novel mechanism make it a valuable compound for pharmaceutical research and development.

Suzetrigine can be retained and analyzed using the Primesep SB stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and ammonium formate. Detection is performed using UV at 250 nm, ELSD or ESI-SIM: [M+H]<sup>+</sup> 474.

#### Method Parameters

|                     |                                               |
|---------------------|-----------------------------------------------|
| Mobile Phase        | MeCN/H <sub>2</sub> O – 40/60%                |
| Buffer              | Ammonium Formate pH 3.0 – 20 mM               |
| Flow Rate           | 0.2 ml/min                                    |
| Detection           | UV at 250 nm; ESI-SIM: [M+H] <sup>+</sup> 474 |
| LOD                 | 8.5 ppb                                       |
| Class of Compounds  | Sodium Channel Blocker                        |
| Analyzing Compounds | Suzetrigine                                   |

#### HPLC Column Used

**Primesep SB, 2.1 x 100 mm, 5 µm, 100 Å, dual ended**

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)