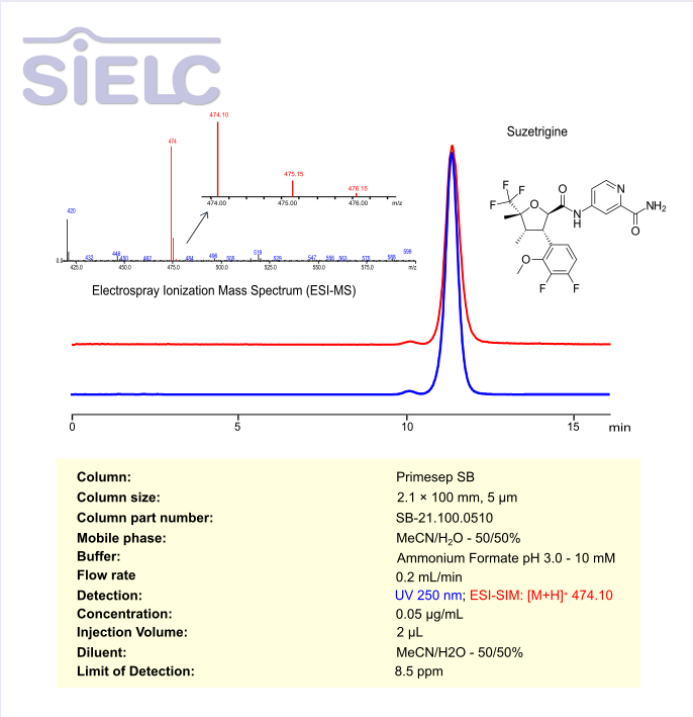
## HPLC-MS Method for Analysis of Suzetrigine on Primesep SB Column




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]+ 474.

*LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

### Method Parameters

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|---|---|
| **Column** | Primesep SB, 2.1 x 100 mm, 5 µm, 100 Å, dual ended |
| **Mobile Phase** | MeCN/H2O – 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]+ 474 |
| **Limit of Detection** | 8.5 ppb |

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