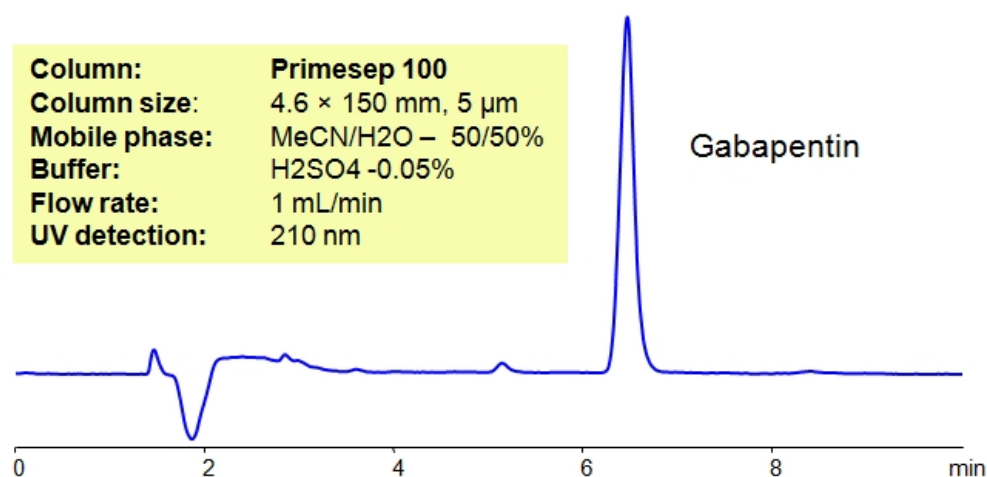
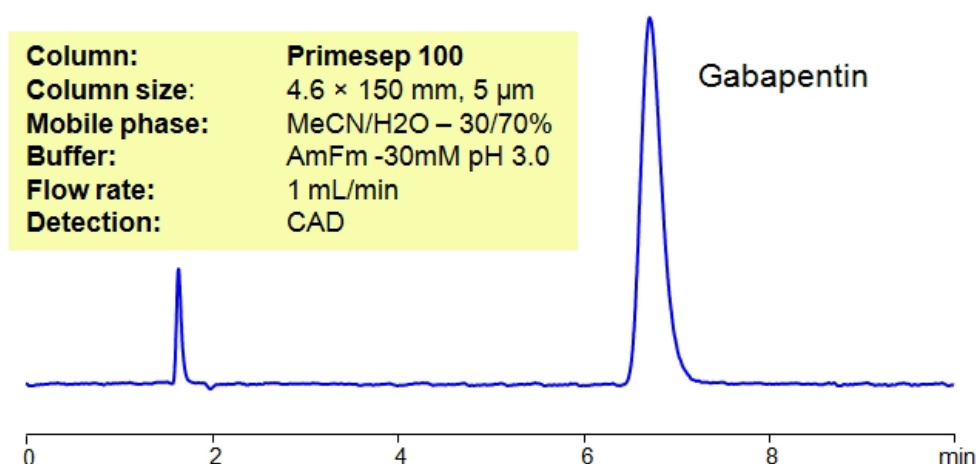


HPLC Method for Analysis of Gabapentin Tablets

<https://sielc.com/hplc-method-for-analysis-of-gabapentin-tablets>

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Gabapentin , Gabapentin hydrochloride

Gabapentin is a drug used to treat epilepsy, neuropathic pain, hot flashes, and restless legs syndrome. It also is used to treat neuropathic pain. Gabapentin can be analyzed by this reverse phase (RP) HPLC method with simple conditions. The mobile phase contains acetonitrile (MeCN), water, and phosphoric acid. For Mass-Spec (MS) compatible applications the phosphoric acid needs to be replaced with formic acid. Smaller 3 µm particle columns are available for fast UPLC applications. This liquid chromatography method is scalable and can be used for isolation of impurities in preparative separation. It is also suitable for pharmacokinetics.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	H ₂ SO ₄ – 0.05 %
Flow Rate	1.0 ml/min
Detection	UV, 210 nm

Class of Compounds	Drug, Nerve pain medication, Anticonvulsant, Hydrophobic, Ionizable, Zwitterionic
Analyzing Compounds	Gabapentin, Gabapentin hydrochloride

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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