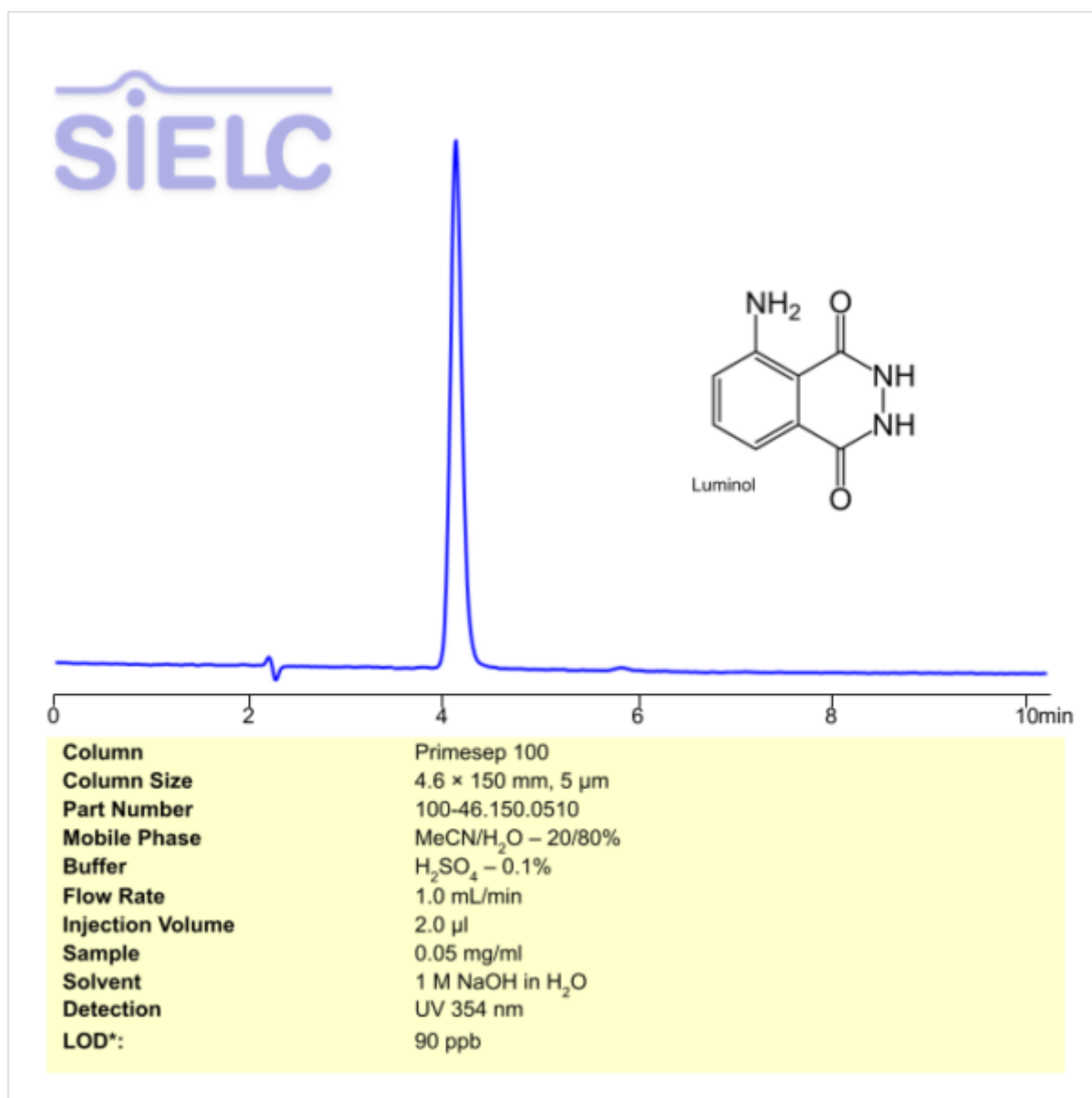


HPLC Method for Analysis of Luminol on Primesep 100 Column

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

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Luminol .

Luminol is a compound with the chemical formula C₈H₇N₃O₂. It is primarily known for exhibiting chemiluminescence, glowing blue when mixed with an oxidizing agent. It has been used in criminal investigation since the 1930s due to its luminescence being enhanced when mixed with blood. Due to the small amount of iron needed as a catalyst, it shows traces of blood even when blood has been cleaned or removed. You can find detailed UV spectra of Luminol and information about its various lambda maxima by visiting the following link.

Luminol can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) and water. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 ml/min
Detection	UV 354 nm
Limit Of Detection*	90 ppb
Class of Compounds	Hydrazide
Analyzing Compounds	Luminol

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)