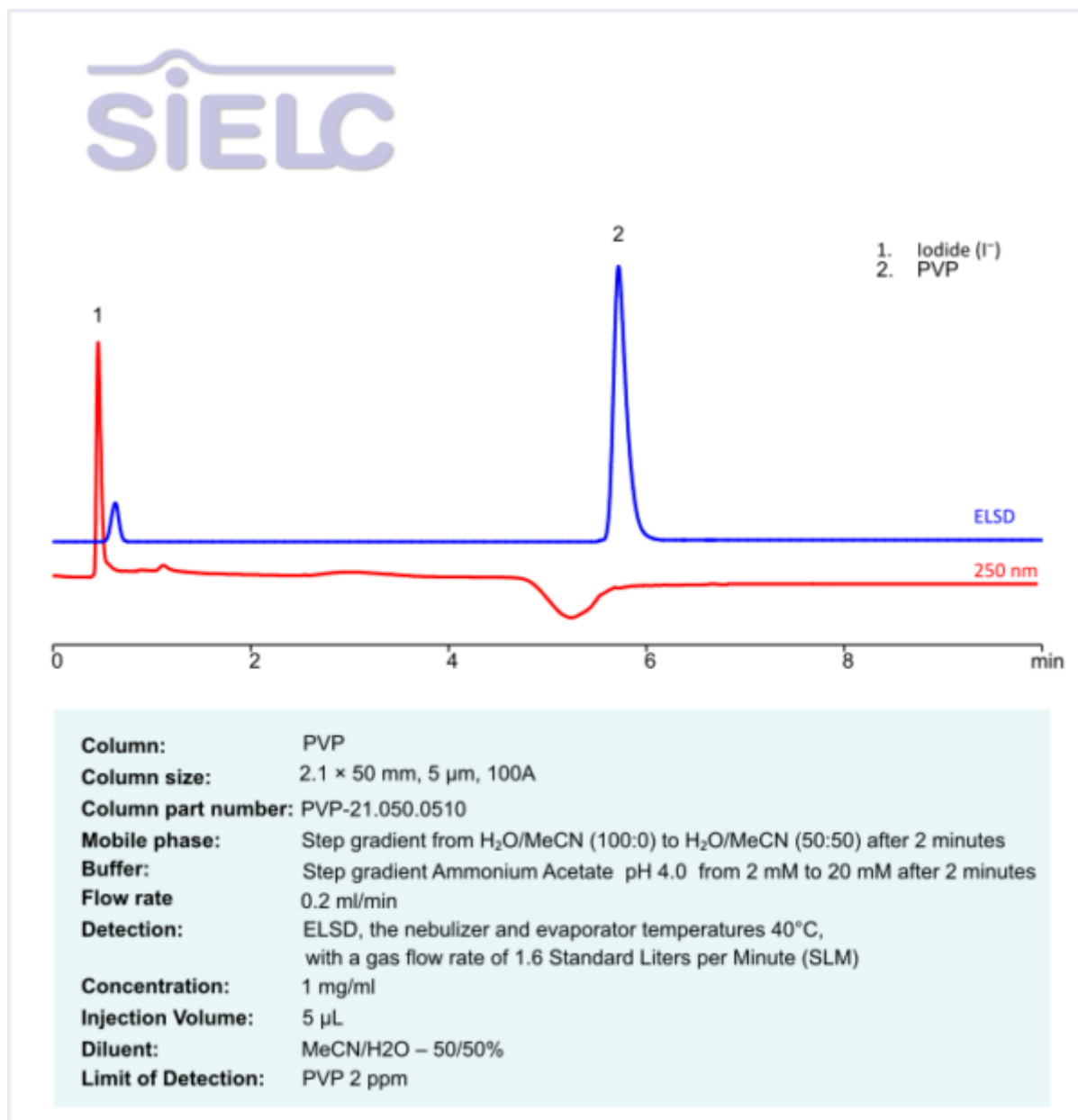


HPLC Method for Separation Povidone-iodine (PVP-I) on PVP Column

<https://sielc.com/hplc-method-povidone-iodine>

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Iodide , Polyvinylpyrrolidone(PVP)

Povidone Iodine (Povidone-Iodine / PVP-I) Povidone Iodine, also known as Povidone-Iodine (PVP-I), is a widely used antiseptic made from iodine and polyvinylpyrrolidone (PVP). This combination allows for a slow, sustained release of iodine, enhancing antimicrobial effects while reducing irritation.

PVP (Polyvinylpyrrolidone): A water-soluble synthetic polymer that acts as:
· It helps form a stable complex with iodine, improving its medical use.
· Iodine: The active antimicrobial agent, effective against:
· Slow release from the PVP complex ensures long-lasting, gentle antiseptic action.

Iodide , Polyvinylpyrrolidone(PVP) can be retained and analyzed using the PVP column. The analysis utilizes an step gradient method with a simple mobile phase consisting of water, acetonitrile (MeCN), and ammonium acetate. Detection is performed

using ELSD.

Method Parameters

Mobile Phase	Step gradient MeCN/H ₂ O
Buffer	Ammonium Acetate pH 4.0 – 20 mM
Flow Rate	0.4 ml/min
Detection	ELSD
LOD	PVP 2 ppm
Class of Compounds	Polymer
Analyzing Compounds	Iodide, Polyvinylpyrrolidone(PVP)

HPLC Column Used

Cannsep A, 2.1 x 100 mm, 5 µm, 100 Å, dual ended

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