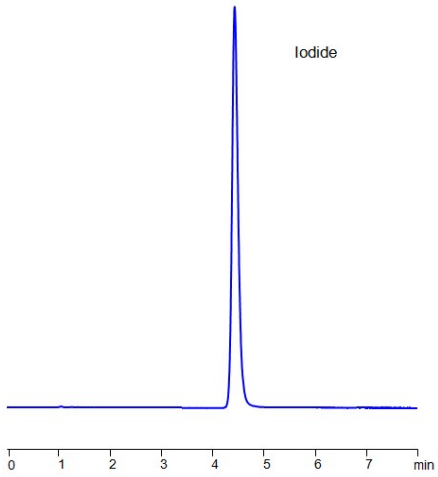
HPLC Method for Analysis of Iodide on Primesep B Column



Column:	Primesep B
Column size:	3.2 × 100 mm, 5 µm
Column part number:	B-32.100.0510
Mobile phase:	MeCN/H_2O – 50/50%
Buffer:	H_2SO_4 - 0.5%
Flow rate:	0.5 mL/min
Detection:	UV 228 nm

Separation type: Liquid Chromatography Mixed-mode

Iodide is an ion with the symbol I – . There is currently a worldwide iodine deficiency, which is a leading preventable cause of intellectual disability, has caused some governments to mandate iodized salt to be sold. It is naturally occurring as a mineral, Iodargyrite.

Iodide can be retained and analyzed using the [mode] stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a perchloric acid buffer. Detection is performed using UV.

You can find detailed UV spectra of Iodide and information about its various lambda maxima by visiting the following link .

Method Parameters

Column	Primesep B, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 50/50%
Buffer	H2SO4 – 0.5%
Flow Rate	0.5 mL/min
Detection	UV 228 nm

Quelle: https://sielc.com/hplc-determination-of-iodide