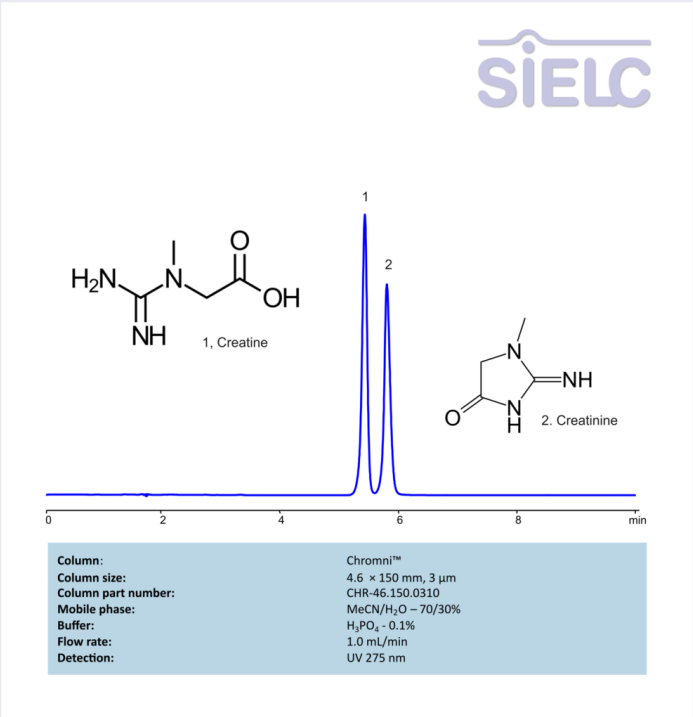
HPLC Method for Analysis of Creatine and Creatinine on Chromni Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Creatine , Creatinine

Creatine is a non-protein amino acid-like compound with the molecular formula C4H9N3O2 .

Properties: Appearance: Typically a white odorless powder.

Molecular weight: ~131.13 g/mol

Solubility: Soluble in water.

Uses: Dietary supplement.

Creatinine is a nitrogenous organic compound with the molecular formula C4H7N3O .

Properties: Appearance: Typically white odorless crystals.

Molecular weight: ~113.12 g/mol

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

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Method Parameters

Column	Chromni, 4.6 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN – 70%
Buffer	Phosphoric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-creatine-creatinine