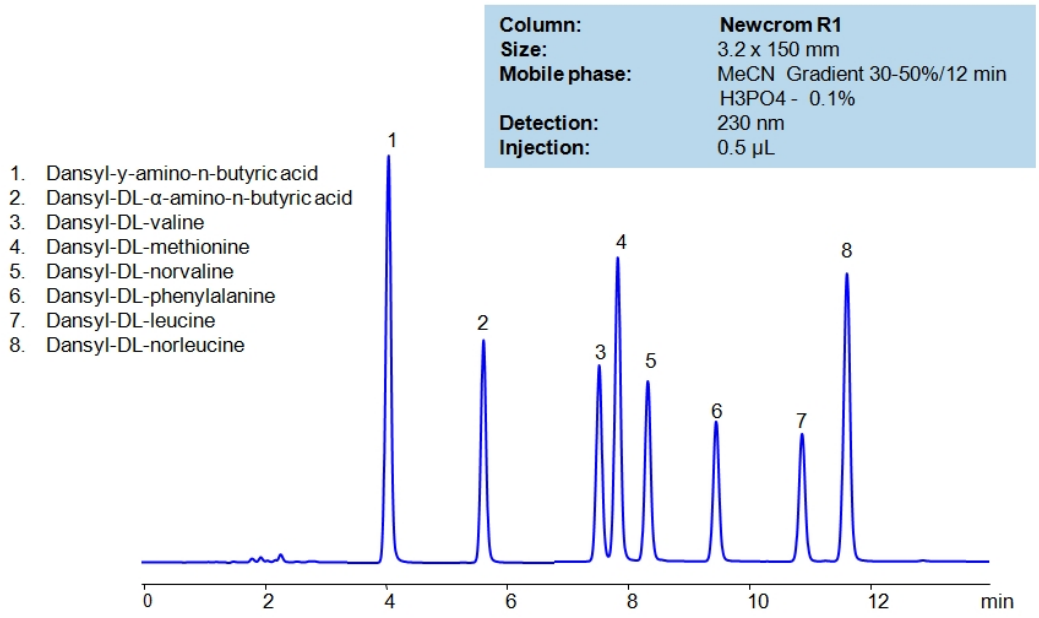
HPLC Method for Analysis of Dansyl Amino Acids



High Performance Liquid Chromatography (HPLC) Method for Analysis of Dansyl-DL-leucine cyclohexylammonium salt , Dansyl-DL-norleucine cyclohexylammonium salt , Dansyl-DL-norvaline piperidinium salt , Dansyl-DL-phenylalanine cyclohexylammonium salt , Dansyl-DL-valine cyclohexylammonium salt , Dansyl-DL-α-amino-n-butyric acid , Dansyl-L-methionine cyclohexylammonium salt , Dansyl-gamma-aminobutyric cyclohexylammonium salt

Dansyl Amino Acids are created when dansyl chloride reacts with amino acids, peptides, or protein. It is used for identification and quantification of the previously mentioned compounds through Thin Layer Chromatography (TLC) and High-Performance-Liquid-Chromatography (HPLC) in a process called dansylation.

Dansyl-DL-leucine cyclohexylammonium salt , Dansyl-DL-norleucine cyclohexylammonium salt , Dansyl-DL-norvaline piperidinium salt , Dansyl-DL-phenylalanine cyclohexylammonium salt , Dansyl-DL-valine cyclohexylammonium salt , Dansyl-DL-α-amino-n-butyric acid , Dansyl-L-methionine cyclohexylammonium salt , Dansyl-gamma-aminobutyric cyclohexylammonium salt can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a phosphoric acid buffer. Detection is performed using UV.

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Method Parameters

Column	Newcrom R1, 3.2 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN30-50%
Buffer	H3PO4 – 0.1%
Flow Rate	1.0ml/min
Detection	UV, 230 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-dansyl-amino-acids-2