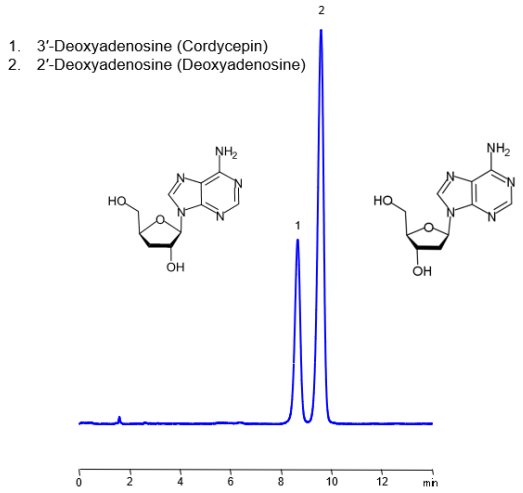
HPLC Method for Analysis of 3′-Deoxyadenosine and 2′-Deoxyadenosine on BIST B+ Column



Column:	BIST B+
Column size:	4.6 × 150 mm, 5 µm
Column part number:	TBP-46.150.0510
Mobile phase:	MeCN – 85%
Buffer:	H_3PO_4 - 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 260 nm

Cordycepin is an adenosine analogue with the chemical formula C10H13N5O3 . It is reported to prevent cell reproduction in various cancer cells. It also might possess antioxidant and anti-inflammatory properties, when considered in addition with it's ability to cross the blood-brain barrier, it may become widely used in pharmaceuticals.

Deoxyadenosine is a deoxyribonucleoside with the chemical formula C10H13N5O3 . It is a derivative of adenosine. High presence of it can kill T lymphocytes and kill those cells, leading to adenosine deaminase severe combined immunodeficiency disease, also known as ADA-SCID.

Cordycepin , Deoxyadenosine can be retained and analyzed using the BIST B+ stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Phosphoric Acid buffer. Detection is performed using UV.

Method Parameters

Column	BIST B+, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 85%
Buffer	H3PO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 260 nm

Quelle: https://sielc.com/hplc-method-of-deoxy

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de