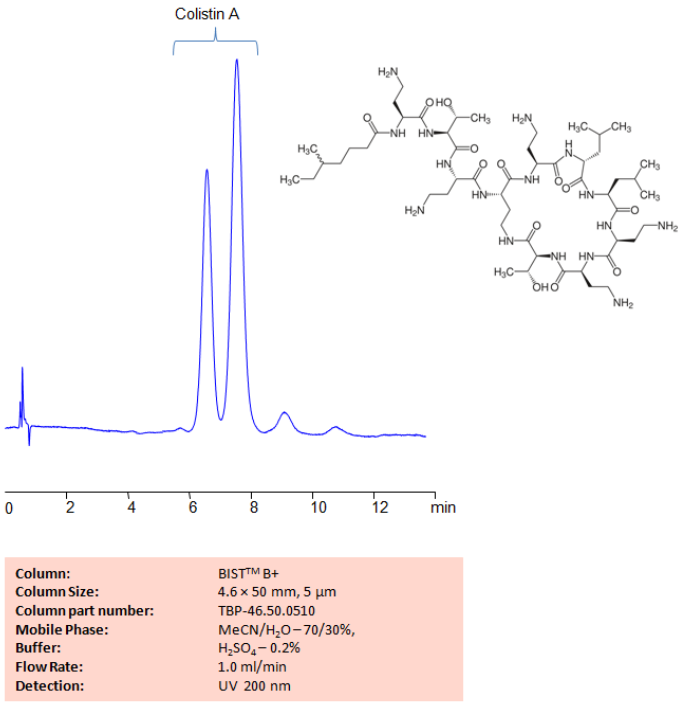
HPLC Method for Analysis of Colistin A on BIST B+ Column



Column:	BIST™ B+
Column Size:	4.6 × 50 mm, 5 µm
Column part number:	TBP-46.50.0510
Mobile Phase:	MeCN/H_2O – 70/30%,
Buffer:	H_2SO_4 – 0.2%
Flow Rate:	1.0 ml/min
Detection:	UV 200 nm

Separation type: Bridge Ion Separation Technology, or BIST™

Colistin A is a last-resort antibiotic drug sued to treat Gram-negative bacterial infection, such as pneumonia. Using SIELC's newly introduced BIST™ method, Colistin A can be retained on a positively-charged anion-exchange BIST™ B+ column. There are two keys to this retention method: 1) a multi-charged, negative buffer, such as Sulfuric acid (H2SO4), which acts as a bridge, linking the positively-charged Copper and peptide to the positively-charged column surface and 2) a mobile phase consisting mostly of organic solvent (such as MeCN) to minimize the formation of a solvation layer around the charged analytes. Using this new and unique analysis method, Colistin A can be separated, retained, and UV detected at 200 nm

Method Parameters

Mobile Phase	MeCN – 70%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-colistin-a

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