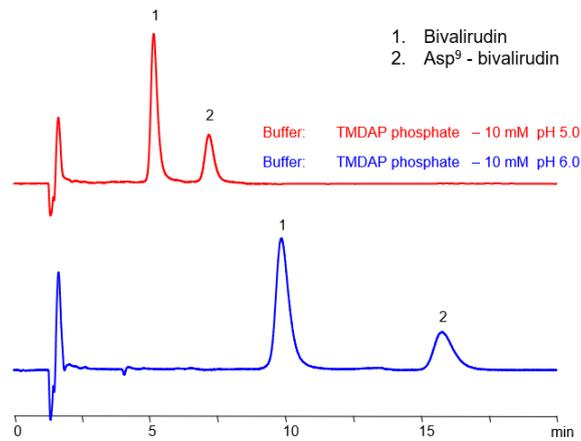


HPLC Method for Analysis of Bivalirudin and Asp9 – bivalirudin on BIST A+



| | |
|----------------------------|--|
| Column: | BIST™ A+ |
| Column size: | 2.1 × 100 mm, 3 µm |
| Column part number: | TAP-21.100.0310 |
| Mobile phase: | MeCN/H ₂ O - 30/70% |
| Buffer: | TMDAP phosphate – 10 mM pH 5.0, pH 6.0 |
| Flow rate: | 0.2 mL/min |
| Detection: | UV 275 nm |

Bivalirudin is a short, 21-amino-acid peptide with the chemical formula C₉₈H₁₃₈N₂₄O₃₃. It has 2 basic and 6 acidic groups. It is sold as a direct thrombin inhibitor (DTI), which is used as an anticoagulant.

Asp 9 -bivalirudin is a process impurity and can be a result of the degradation of the drug bivalirudin. It has the chemical formula C₉₈H₁₃₇N₂₃O₃₄.

SIELC's new BIST™ mode can retain and separate Bivalirudin and its degradant with a TMDAP phosphate buffer, and the respective retention times can be controlled by altering the pH of the buffer.

Method Parameters

| | |
|---------------------|--|
| Column | BIST A+, 2.1 x 100 mm, 3 µm, 100 Å, dual ended |
| Mobile Phase | MeCN – 30% |
| Buffer | TMDAP phosphate – 5 mM pH 5.0, pH 6.0 |
| Flow Rate | 0.2 mL/min |
| Detection | UV 275 nm |

Quelle: <https://sielc.com/hplc-method-for-bivalirudin>