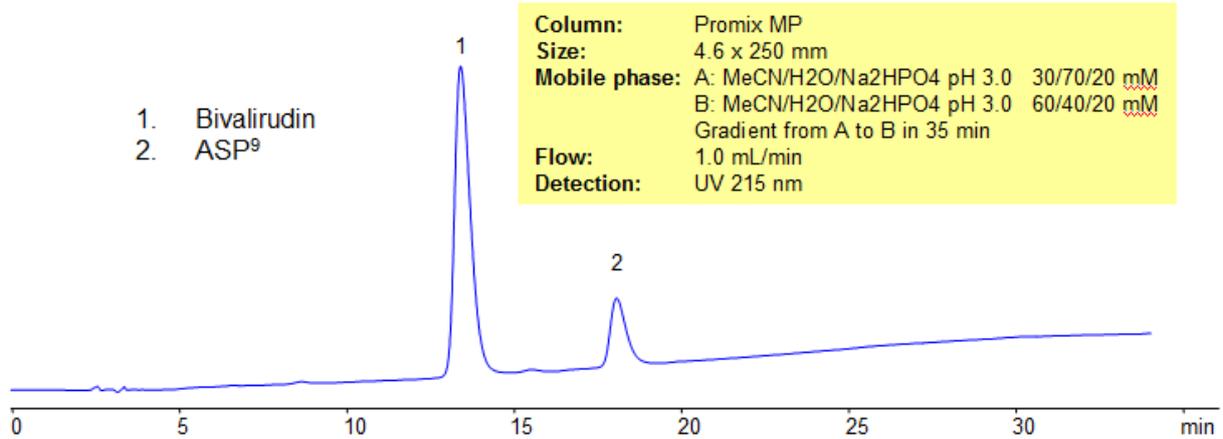


## HPLC Analysis of Bivalirudin on Promix MP column



Bivalirudin is a short 21 amino acids peptide. It has 2 basic and 6 acidic groups. It is a naturally occurred anticoagulant. Asp 9 – bivalirudin is a process impurity and can be a result of degradation of bivalirudin drug.

The Promix family of mixed-mode columns presents an innovative chromatography technology for the efficient resolution of peptides and proteins. This technology hinges on a unique blend of hydrophobic and ionic interactions, facilitated by a novel separation medium: a ligand bonded to a silica support, chemically combined with hydrophobic and ionic functional groups. This phase provides unparalleled selectivity and peak capacity. By independently adjusting the quantities of buffer and organic modifier, a virtually infinite number of separation conditions can be achieved, rendering it suitable for a wide array of biomolecules.

### Method Parameters

<b>Column</b>	Promix MP, 4.6x250 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	Gradient MeCN – 30-60%, 35 min
<b>Buffer</b>	Na <sub>2</sub> HPO <sub>4</sub> pH 3.0- 20 mM
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 215 nm

Quelle: <https://sielc.com/hplc%20analysis%20of%20bivalirudin>