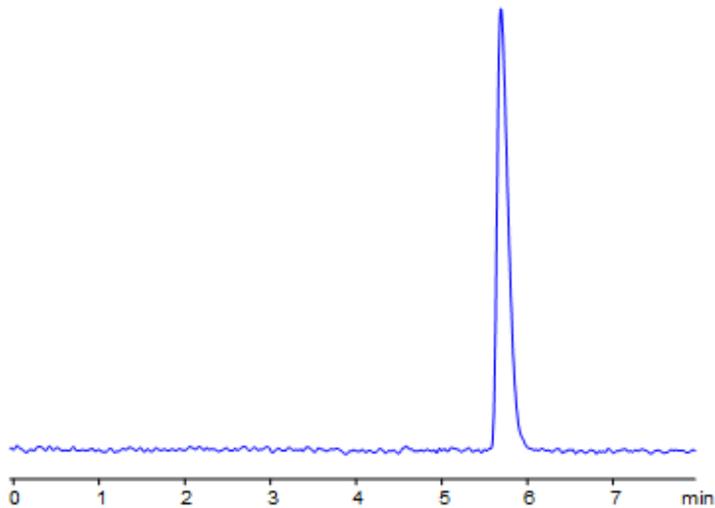


## HPLC Separation of Phenoxymethylpenicillin



**Column:** Legacy L1  
**Column size:** 4.6 x 250 mm  
**Mobile Phase:** 30% ACN,  
**Buffer:** 30 mM NaH<sub>2</sub>PO<sub>4</sub> pH 6.0  
**Flow:** 1.0 mL/min  
**Detection:** 270 nm

Phenoxymethylpenicillin (also known as penicillin V) is an antibiotic useful in the treatment of multiple bacterial infections such as those caused by *Streptococcus pyogenes*, Anthrax, Lyme Disease, Rheumatic fever, and blood infection prophylaxis in children with sickle cell diseases. Legacy L1 was used to retain Phenoxymethylpenicillin by reverse phase mechanism. Legacy L1 uses embedded C18 groups on porous silica and is useful for many USP HPLC applications. Comparisons to Phenomenex columns are available by request.

SIELC's family of Legacy columns is based on the United States Pharmacopeia's (USP) published chromatographic methods and procedures. Numerous brands have columns used in USP reference standards and methods. USP has created various designations to group together columns with similar types of packing and properties in the solid phase. SIELC's Legacy columns adhere to these strict requirements and properties, allowing you to easily replace older columns that are no longer available without needing to significantly modify your method or SOPs.

### Method Parameters

<b>Column</b>	Legacy L1, 4.6x250 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	MeCN – 30%
<b>Buffer</b>	NaH <sub>2</sub> PO <sub>4</sub> pH 6.0 – 30 mM
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 270 nm

Quelle: <https://sielc.com/Application-HPLC-Separation-of-Phenoxymethylpenicillin>