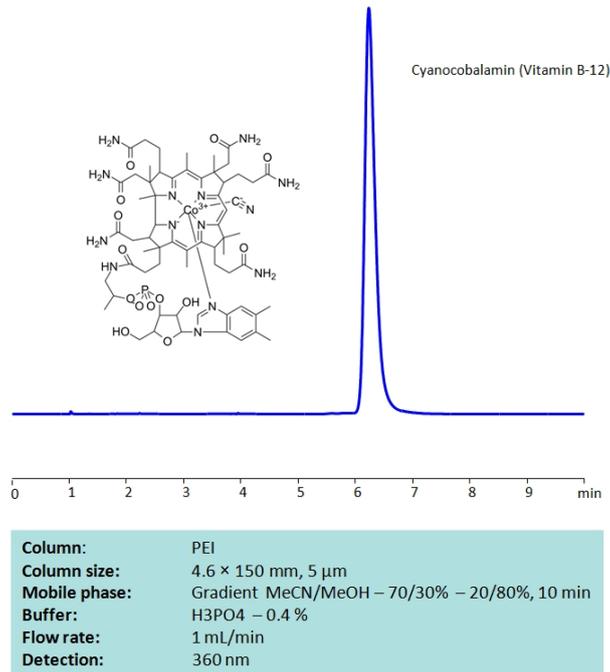


HPLC Determination of Cyanocobalamin (Vitamin B-12) on PEI Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Cyanocobalamin .

Vitamin B12 is a water-soluble vitamin that is naturally present in some foods and available as a dietary supplement and as prescription medication. Vitamin B12 exists in several forms and contains the mineral cobalt, so compounds with vitamin B12 activity are collectively called “cobalamins”. It plays an essential role in the production of the red blood cells and DNA, as well as in the proper functioning of the nervous system. Vitamin B12 can be retained and UV detected at 360 nm. Using the PEI column and a mobile phase gradient of organic modifier and phosphoric acid (H3PO4) as buffer.

SIELC Technologies offers custom phases for customers who require specific separations not achievable with commercially available HPLC phases. Considering the vast array of compounds and mixtures requiring analysis, tailored LC phases can significantly enhance separation results for unique and challenging applications. To learn more about our special custom LC phases designed for your specific separation needs, please contact SIELC Technologies at research@sielc.com . Our team of experts is ready to guide you through the process and create a custom solution that addresses your particular chromatographic challenges.

Method Parameters

Column	PEI
Mobile Phase	MeCN/MeOH
Buffer	H3PO4 – 0.4%
Flow Rate	1.0 mL/min
Detection	UV 360 nm

Quelle: <https://sielc.com/hplc-determination-of-cyanocobalamin-vitamin-b-12-on-pei-column>