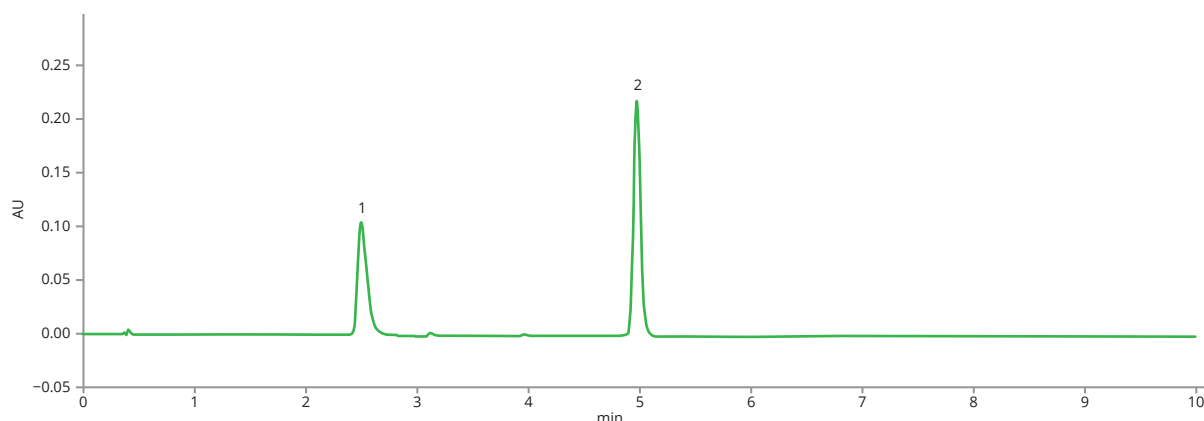


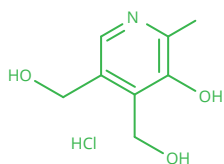
Dissolution profile pyridoxine and benfotiamine

The development of the HPLC method for vitamin mixtures in drug products is always challenging, taking into account the requirements of analytical methods in pharmaceutical production. Shown below is a chromatogram of dissolution profile of tablets that contain a mixture of pyridoxine hydrochloride and benfotiamine. ARION® Polar C18 column provides a perfect resolution factor and peaks symmetry in a long sequence of analysis.

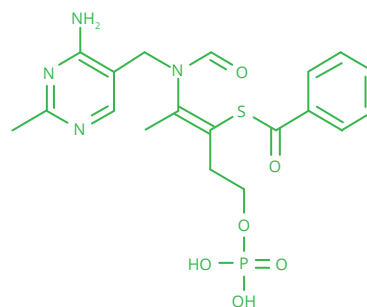
Substance	Pyridoxine hydrochloride, CAS number 58-56-0
Synonym	Vitamin B6
Substance	Benfotiamine, CAS number 22457-89-2



Test mixture on ARION® column



Pyridoxine hydrochloride



Benfotiamine



Dissolution profile pyridoxine and benfotiamine

Column	ARION® Polar C18, 3.0 µm		
Dimensions	50 mm × 4.6 mm		
Part number	ARI-5721-IG46		
Mobile phase	A: 50mM KH ₂ PO ₄ + 0.3 ml 85% H ₃ PO ₄ (pH=3.0) B: ACN and A, 160/840 (v/v)		
Gradient elution	Time	A (%)	B (%)
	0	100	0
	2	100	0
	2.1	20	80
	5	20	80
	5.1	100	0
	8	100	0
	10	100	0
Flow rate	1.6 ml/min		
Temperature	22 °C		
Detection	UV at 222 nm		
Injection volume	10 µl		
Analytes	1. Pyridoxine 2. Benfotiamine		