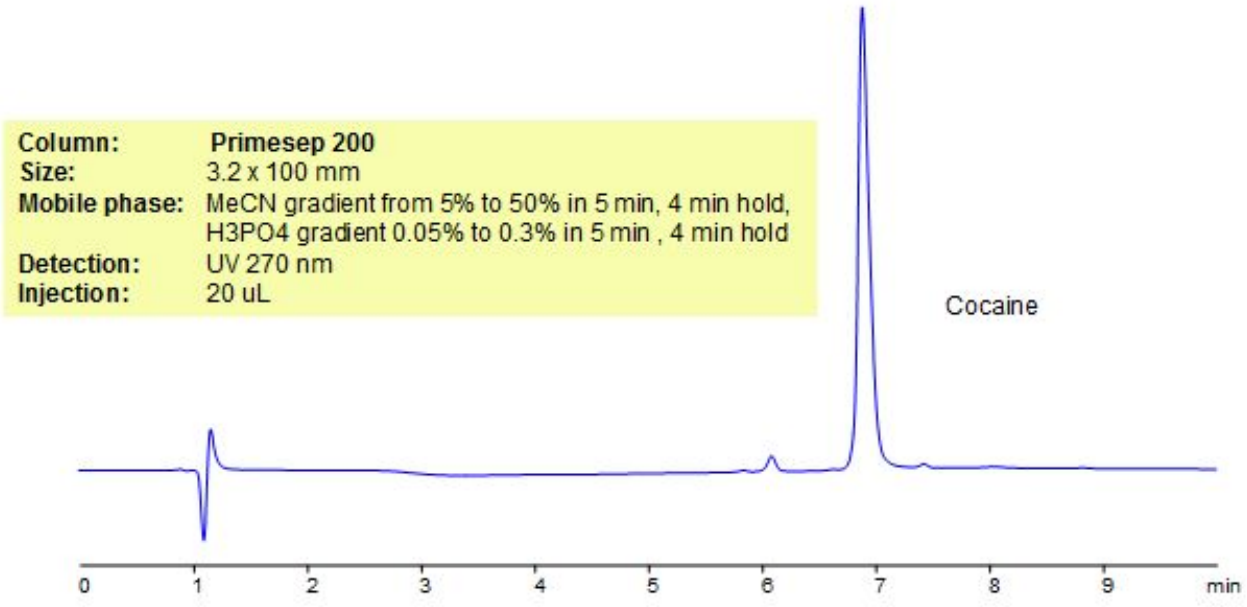
HPLC Method for Analysis of Cocaine



Cocaine, also known as coke, is mostly used as a recreational drug. It is a strong stimulant. The drug's most common appearance in powder form is a salt, usually cocaine hydrochloride. Due to Cocaine rapidly metabolizing in the body, so if it's ingested/inhaled, its concentration in urine usually does not exceed 10% that of its principal metabolite, benzoylecgonine. Primesep 200, a reverse phase column, contains embedded acidic ionizable groups and can retain Cocaine. The method is UV compatible and can be used as a general approach for analyzing similar compounds.

Method Parameters

Column	Primesep 200, 3.2×100 mm, 5 µm, 100 Å
Mobile Phase	Gradient MeCN – 5-50%
Buffer	Gradient H3PO4 – 0.05-0.3%, 5 min, 4 min hold
Flow Rate	0.5 mL/min
Detection	UV, 270 nm

Quelle: https://sielc.com/HPLC-Method-Analysis-Cocaine