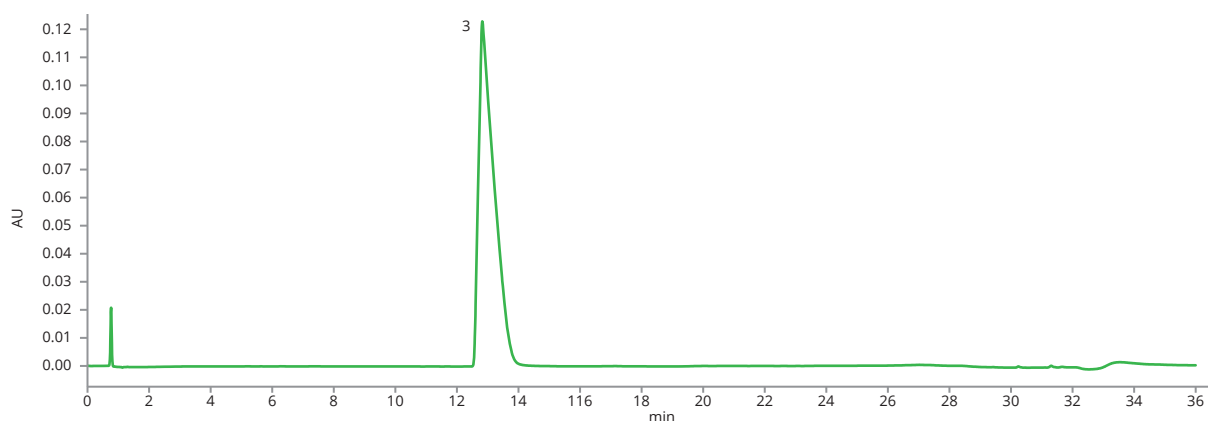




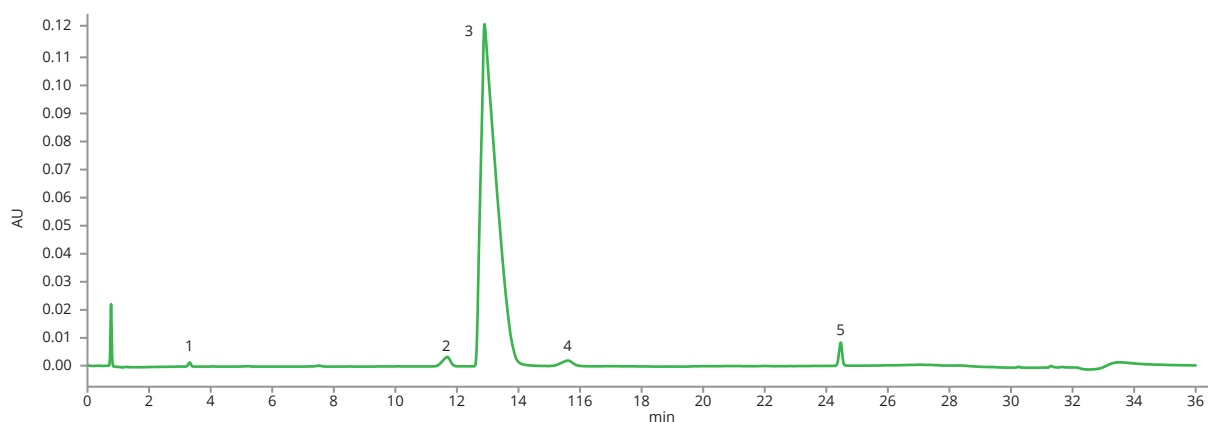
Codeine phosphate

Control of active pharmaceutical ingredients should meet the strict requirements of pharmacopeial monographs. ARION® Plus C18 column provides perfect tailing factor and resolution coefficient according to USP Monograph for codeine phosphate in comparison with competitive's column.

Substance	Codeine phosphate, CAS number 52-28-8
Synonym	Codeine

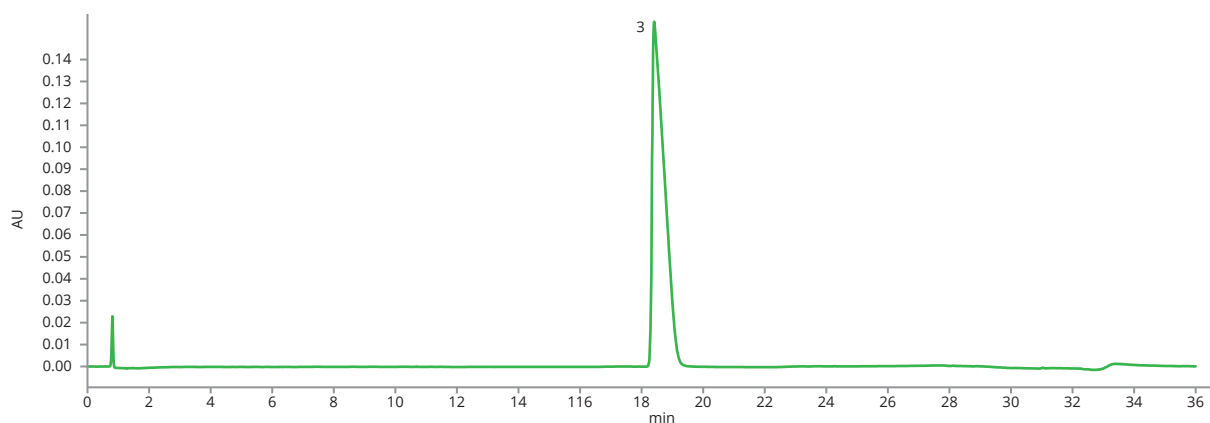


Standard solution on ARION® column. Tailing factor: 2.30.

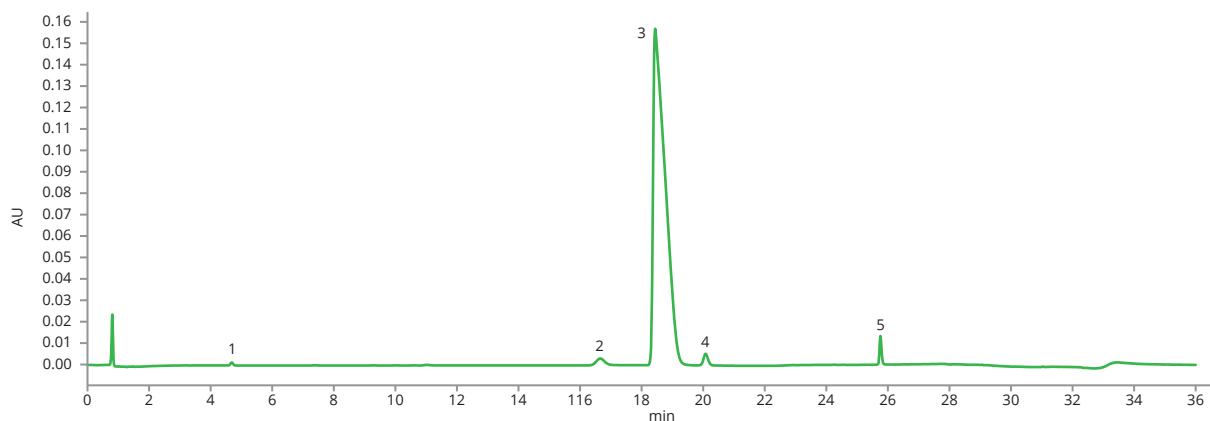


System suitability solution on ARION® column. Resolution: 1.60 between norcodeine and codeine.

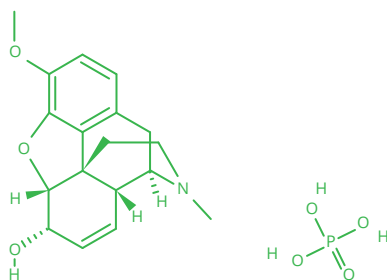
Codeine phosphate



Standard solution on Competitor T column. Tailing factor: 3.20.



System suitability solution on Competitor T column. Resolution: 2.70 between norcodeine and codeine.



Codeine phosphate



Codeine phosphate

Column	ARION® Plus C18, 3.0 µm		
Dimensions	150 mm × 4.6 mm		
Part number	ARI-5720-IK46		
Mobile phase	A: 2% CH ₃ COOH in water + 50% (w/v) NaOH (pH=4.5) B: ACN		
Gradient elution	Time (min)	%A	%B
	0	96	4
	15	96	4
	22	89	11
	31	63	37
	31.1	96	4
	36	96	4
Flow rate	1.88 mL/min		
Temperature	37 °C		
Detection	UV at 280 nm		
Injection volume	10 µL		
Analytes	1. Morphine 2. Norcodeine 3. Codeine 4. Codeine N-oxide 5. Codeine methyl ether		

Suitability requirements

Tailing factor	0.8–3.0 (Standard solution)
Resolution	NLT 1.5 between norcodeine and codeine (System suitability solution)