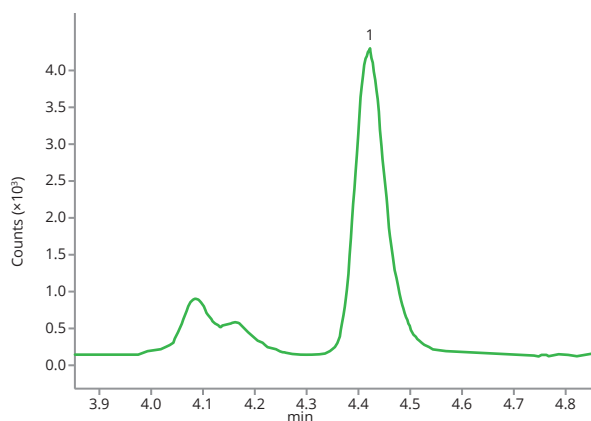
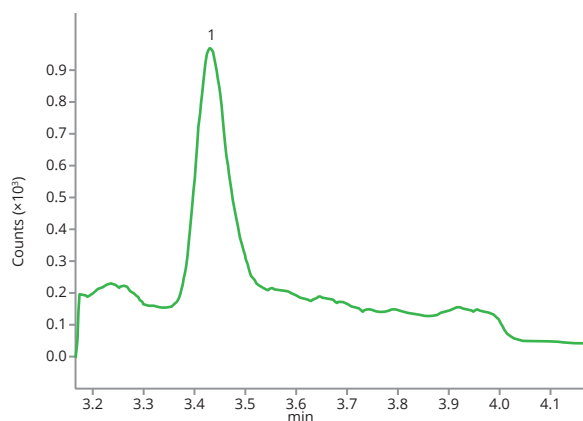


Dihydrotestosterone

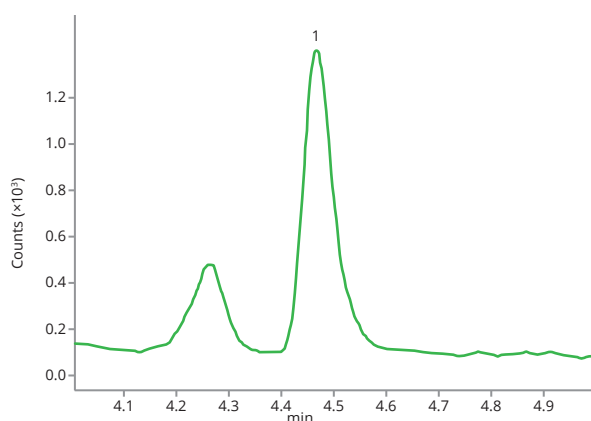
Dihydrotestosterone (DHT) is an androgenic hormone synthesized primarily in prostate. DHT plays a primary role in the formation of the male genitalia during embryogenesis and it acts as the primary androgen in the prostate and hair follicles in adulthood. In medicine it is used mainly in the treatment of low testosterone levels. ARION® Biphenyl column allows to determine DHT with sufficient tailing factor and resolution coefficient in the complex mixture of excipients in finished dosage form.



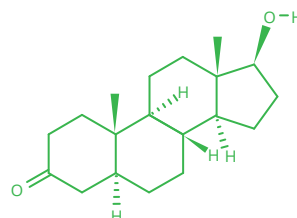
*Analysis of test solution
on ARION® Biphenyl column*



*Analysis of test solution
on Competitor P core-shell column*



*Analysis of test solution
on Competitor C core-shell column*



Dihydrotestosterone



Dihydrotestosterone

Column	ARION® Biphenyl, 3 µm			
Dimensions	50 mm × 2.1 mm			
Part number	ARI-5868-IG21			
Mobile phase	A: water, 0.1% formic acid B: ACN, 0.1% formic acid			
Gradient elution	Time	A (%)	B (%)	Flow rate (mL/min)
	0	80	20	0.3
	0.5	80	20	0.3
	5	19.5	80.5	0.3
	6	2	98	0.4
	8	2	98	0.4
	9.5	80	20	0.3
	10.5	80	20	0.3
Temperature	25 °C			
Detection	MS/MS			
Injection volume	8 µL			
Analytes	1. Dihydrotestosterone, CAS No. 521-18-6			

MS method

Ionization	Positive ESI		
Collision gas	Nitrogen		
MRM transition	Analyte	Q1 (Da)	Q3(Da)
	Dihydrotestosterone	291.1	255
	Dihydrotestosterone	291.1	159