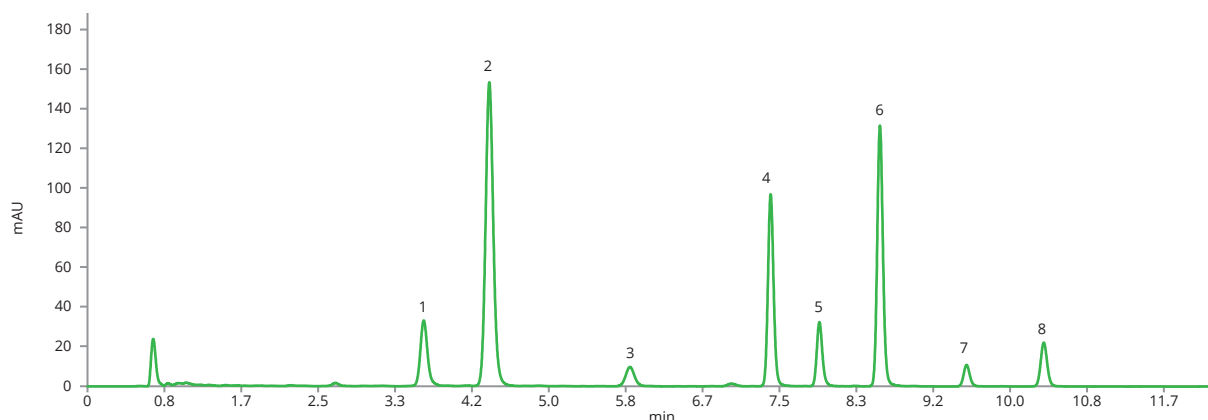


Ergot alkaloids

Ergot alkaloids are mitotoxins produced by several species of fungi. Many different cereals may become contaminated with ergot alkaloids that cause poisoning in human and animals is known as ergotism. Despite on actions taken in agricultural practice for grain purification, control of the ergot alkaloids is still actual taking into account the low toxicological limits of these mitotoxins.

Substance

Ergosine, CAS number 561-94-4
Ergotamine, CAS number 113-15-5
Ergosinine, CAS number 596-88-3
Ergocristine, CAS number 511-08-0
Ergostine, CAS number 2854-38-8
Ergotaminine, CAS number 639-81-6
Ergostinine, CAS number 3268-95-9
Ergocristinine, CAS number 511-07-09



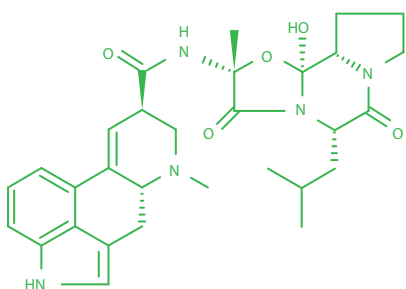
Test solution on ASTRA® column



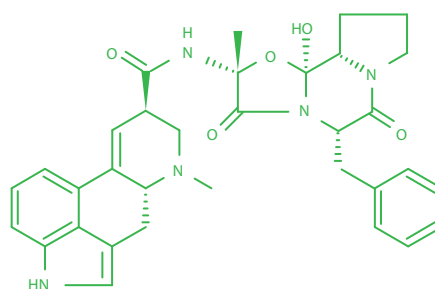
Ergot alkaloids

Column	ASTRA® C18-HE, 3.0 µm		
Dimensions	100 mm × 3.0 mm		
Part number	AST-5732-II30		
Mobile phase	A: 10mM Buffer (pH = 7.0) B: ACN		
Gradient elution	Time (min)	% A	% B
	0.0	59	41
	4.0	55	45
	6.0	40	60
	15.0	15	85
Flow rate	0.75 ml/min		
Temperature	30 °C		
Detection	UV at 310 nm		
Injection volume	3 µl		
Analytes	1. Ergosine 2. Ergotamine 3. Ergosinine 4. Ergocristine 5. Ergostine 6. Ergotaminine 7. Ergostinine 8. Ergocristinine		

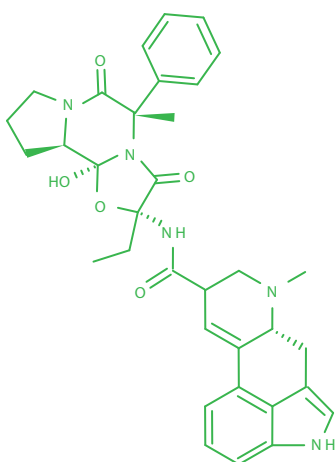
Ergot alkaloids



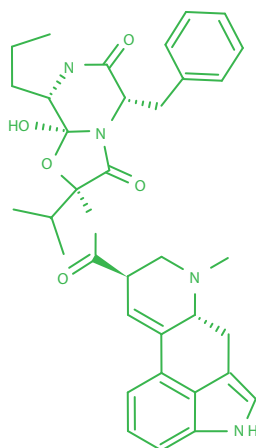
Ergosine



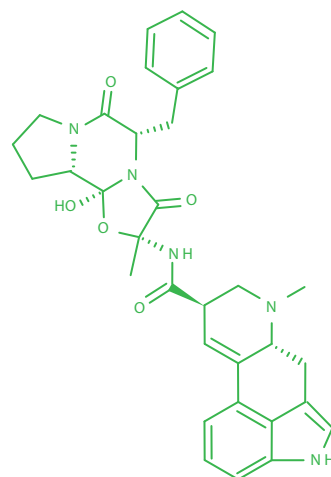
Ergotamine



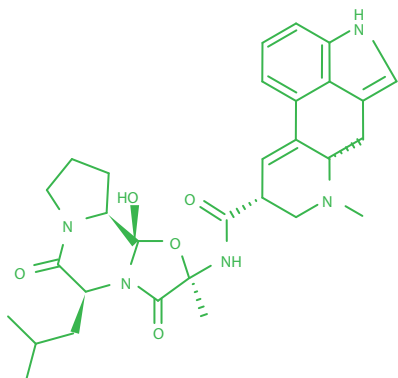
Ergostinine



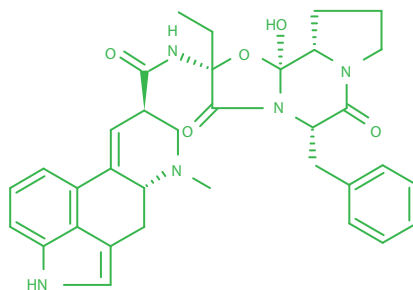
Ergocristine



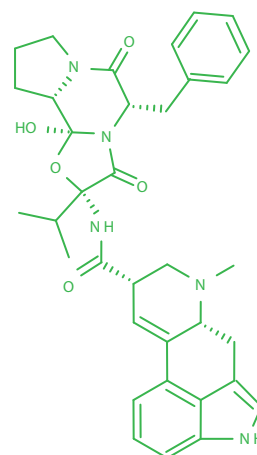
Ergotaminine



Ergosinine



Ergostine



Ergocristinine