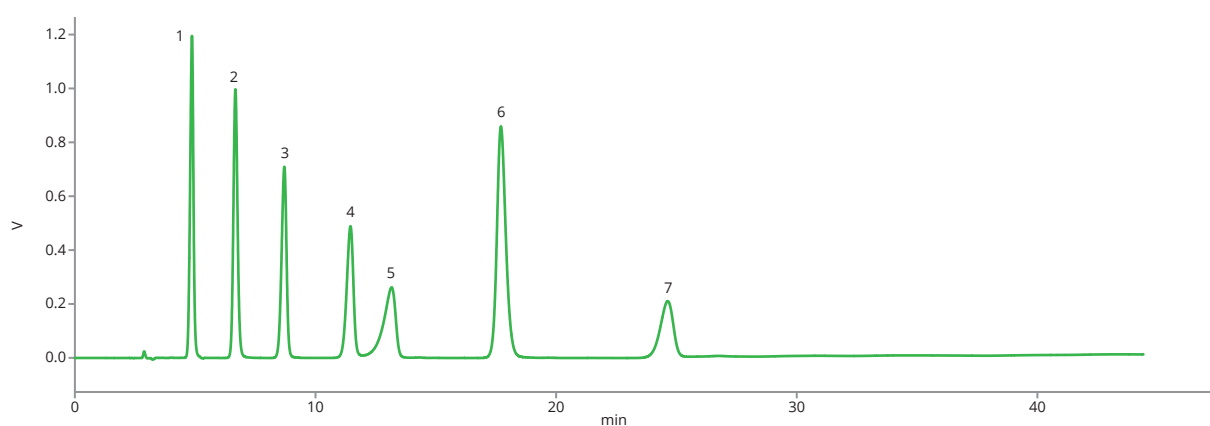


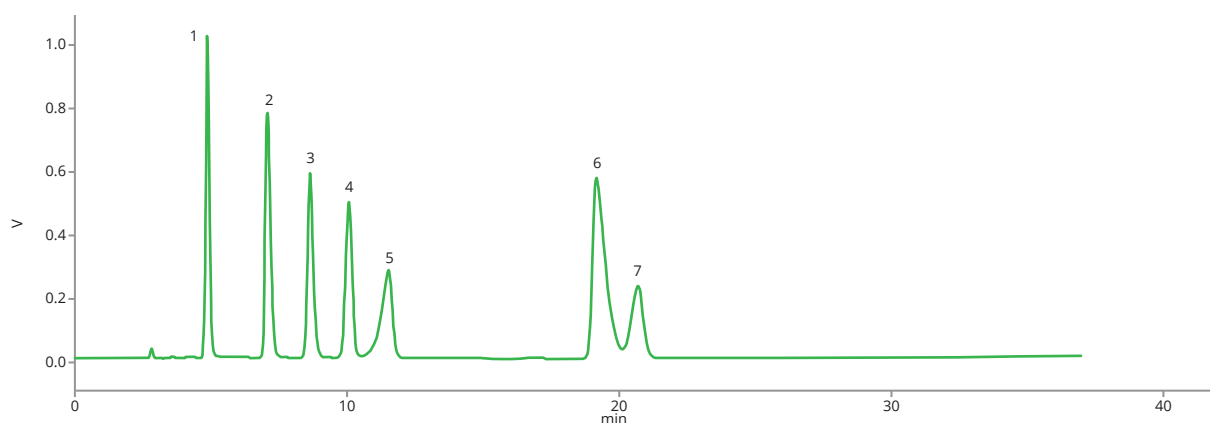


## Opioids APIs

Opioids can be used in medicine to treat pain and to manage withdrawal symptoms. ASTRA® Phenyl-Hexyl-HE column allows to separate the mixture of opioids with sufficient resolution coefficients in comparison to competitive's column.



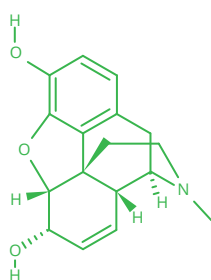
*Analysis of test solution on ASTRA® Phenyl-Hexyl-HE column*



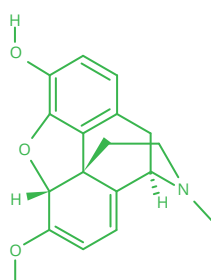
*Analysis of test solution on Competitor R column*

## Opioids APIs

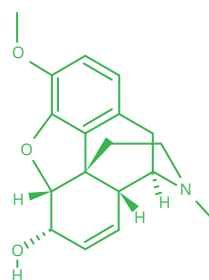
<b>Column</b>	ASTRA® Phenyl-Hexyl-HE, 5.0 µm
<b>Dimensions</b>	250 mm × 4.6 mm
<b>Part number</b>	AST-5891-LM46
<b>Mobile phase</b>	TEA : 50 % MEOH + 0.2 % H <sub>3</sub> PO <sub>4</sub> (pH = 7.0) Isocratic elution
<b>Flow rate</b>	1.0 mL/min
<b>Temperature</b>	30 °C
<b>Detection</b>	UV at 230 nm
<b>Injection volume</b>	20 µL
<b>Analytes</b>	<ol style="list-style-type: none"> <li><b>1. Morphine, CAS No. 57-27-2</b></li> <li><b>2. Oripavine, CAS No. 467-04-9</b></li> <li><b>3. Codeine, CAS No. 76-57-3</b></li> <li><b>4. Naltrexone, CAS No. 16590-41-3</b></li> <li><b>5. Nalmefene, CAS No. 55096-26-9</b></li> <li><b>6. Thebaine, CAS No. 115-37-7</b></li> <li><b>7. Nalbuphine, CAS No. 20594-83-6</b></li> </ol>



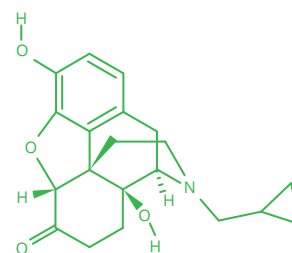
*Morphine*



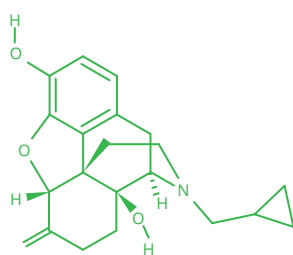
*Oripavine*



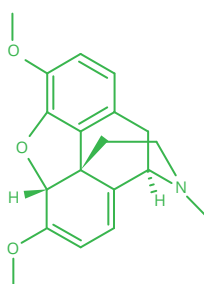
*Codeine*



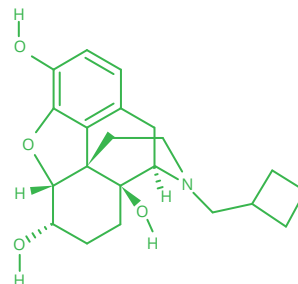
*Naltrexone*



*Nalmefene*



*Thebaine*



*Nalbuphine*