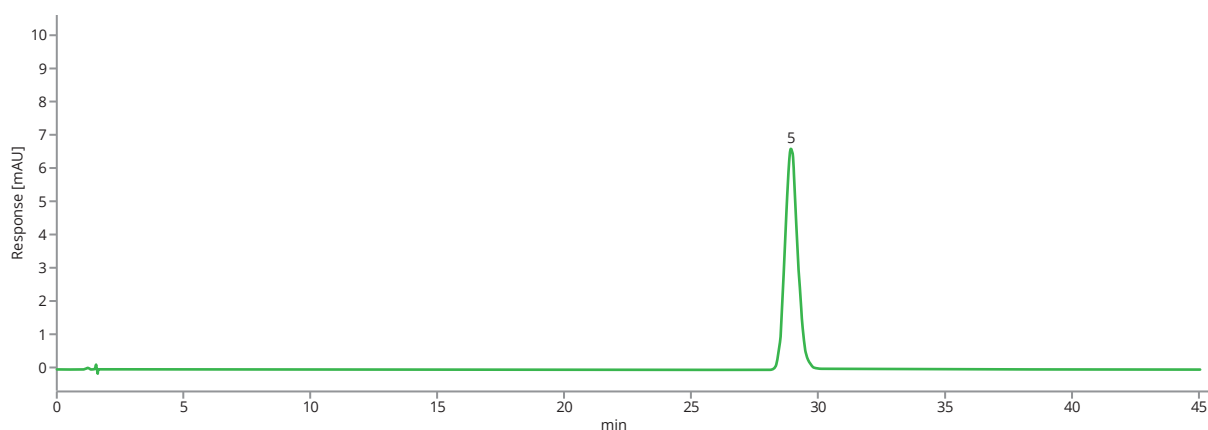
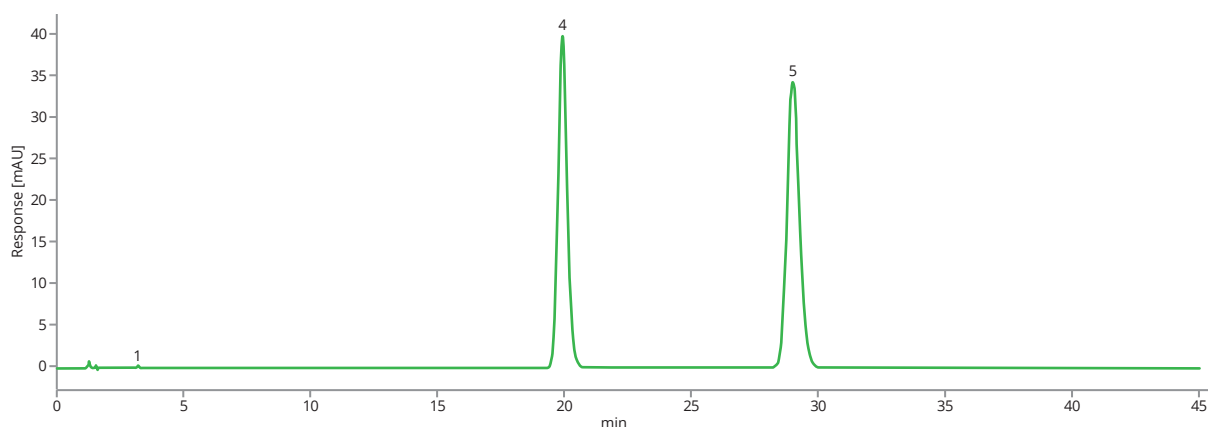


Zopiclone impurities

Related substances control is a mandatory test in routine specification of active pharmaceutical ingredient. Chromatographic method should meet the strict system suitability requirements that is often challenging due to close retention times of the studied compounds. ARION® column shows a robust and precise results in control of Zopiclone related substances in a long sequence of analysis.

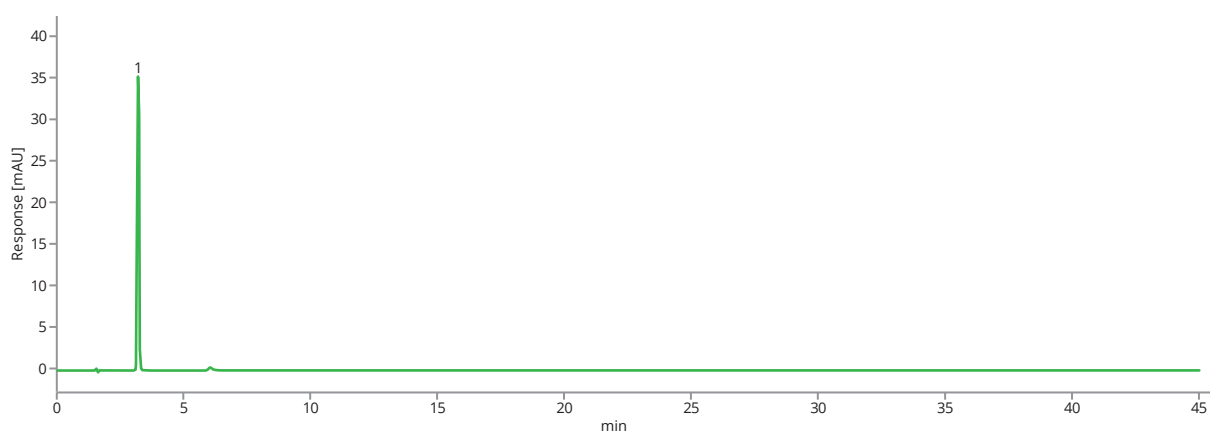


Reference solution (a) on ARION® column

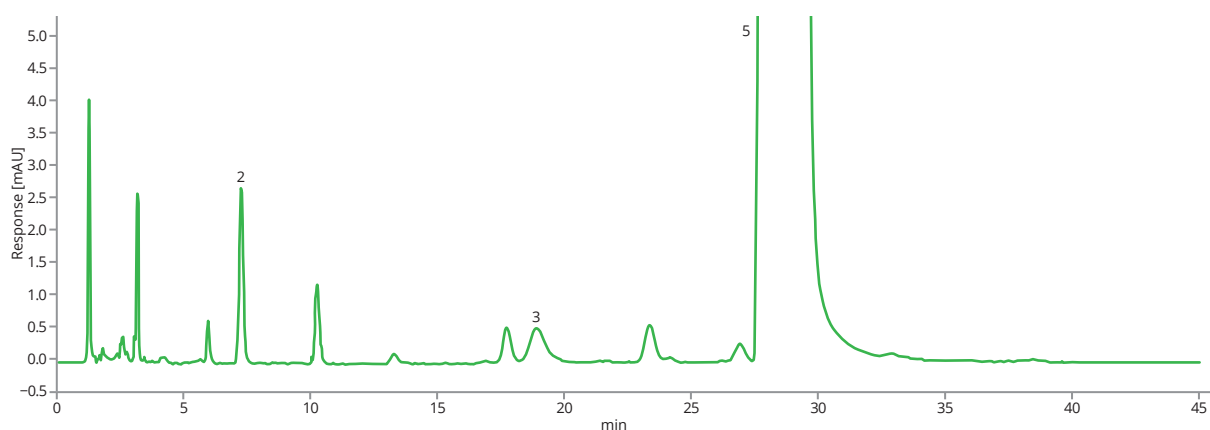


Reference solution (b) on ARION® column

Zopiclone impurities



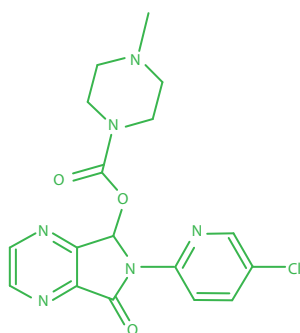
Reference solution (c) on ARION® column



Test solution on ARION® column

Zopiclone impurities

Column	ARION® Plus C18, 5 µm
Dimensions	250 mm × 4.6 mm
Part number	ARI-5720-LM46
Mobile phase	ACN : solution containing 8.1 g/L of sodium laurilsulfate and 1.6 g/L of NaH ₂ PO ₄ , previously adjusted to pH 3.5 with a 10 % H ₃ PO ₄ 38/62 (v/v) Isocratic elution
Flow rate	1.5 mL/min
Temperature	30 °C
Injection volume	20 µL
Detection	UV at 303 nm
Analytes	1. Impurity B 2. Unknown impurity RT 7.25 3. Unknown impurity RT 18.87 4. Impurity A 5. Zopiclone , CAS number 43200-80-2



Zopiclone