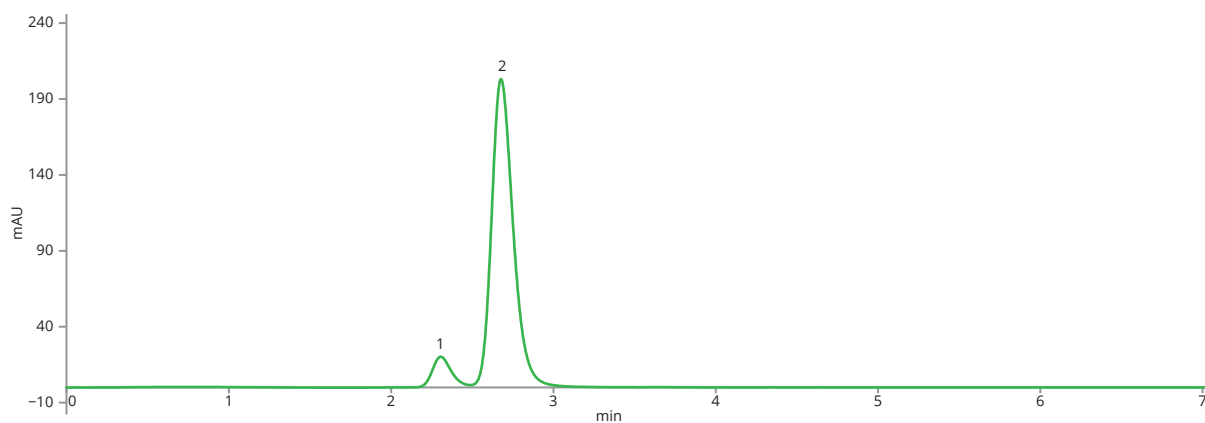


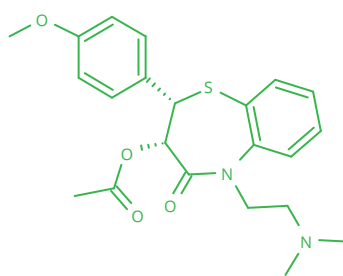
Degradation assessment of diltiazem

The HPLC/UV method has been optimized for the degradation assessment of calcium channel blocker diltiazem. The photochemical degradation kinetics of this benzodiazepine structure is studied in aqueous solution.

Substance	Diltiazem, CAS number 42399-41-7
Synonym	Adizem, Citizem, Deltazen, Zilden



Water sample analysis



Diltiazem



Degradation assessment of diltiazem

Column	Arion® Plus C18, 5.0 µm
Dimensions	150 mm × 3.0 mm
Part number	ARI-5720-LK30
Mobile phase	6mM ammonium acetate in water / methanol 30/70 (v/v) Isocratic elution
Flow rate	1.0 ml/min
Temperature	30 °C
Detection	UV @240 nm
Injection volume	20 µl
Analytes	1. Unknown – related product 2. Diltiazem



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The application has been developed by University of South Bohemia in České budějovice.