**APPLICATION LIST #406** 

## Atorvastatin and photodegradation products

The HPLC method with UV and FLD detection has been optimized for the evaluation of photochemical degradation kinetics of atorvastatin in aqueous solutions under light conditions relevant to natural waters. Knowledge of the relative proportion of atorvastatin and its degradation products in water solution is needed for the further study of a potential toxic effect of atorvastatin itself and of the mixture of products of atorvastatin photochemical degradation in a water environment.



Atorvastatin and degradation products monitoring



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## Atorvastatin and photodegradation products

Co.

Arion <sup>®</sup> Plus C18, 5.0 μm
150 mm × 3.0 mm
ARI-5720-LK30
0.1% formic acid in Milli-Q water/ACN 55/45 (v/v)
Isocratic elution
1.0 ml/min
30 °C
UV @247 nm, FLD @245/390 nm
5 μΙ
1. Degradation product 1
2. Atorvastatin
3. Degradation product 2
4. Degradation product 3



fakulta

Faculty of Science

Přírodovědecká Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice The application has been developed by University of South Bohemia in České budějovice.

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