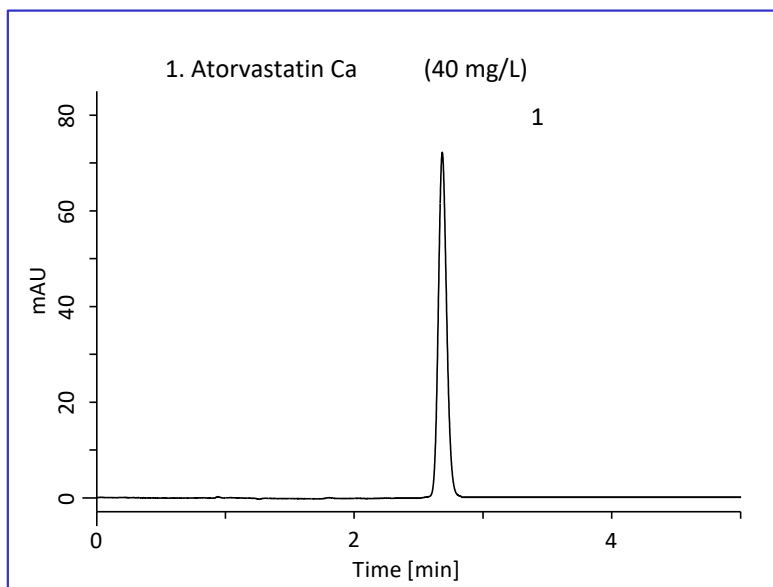


Atorvastatin is one of the drug class known as statins. This kind of drugs are used for lowering cholesterol concentration in blood because statins inhibit HMG-CoA reductase, which are known to play an important role in production of cholesterol in liver tissue.

Among the members of statins, atorvastatin is prescribed very frequently. In this note, a determination method for atorvastatin is described. Using Inertsil C8-4, sharp peak was obtained from tablet samples as well as standard solution.

A chromatogram obtained from standard solution

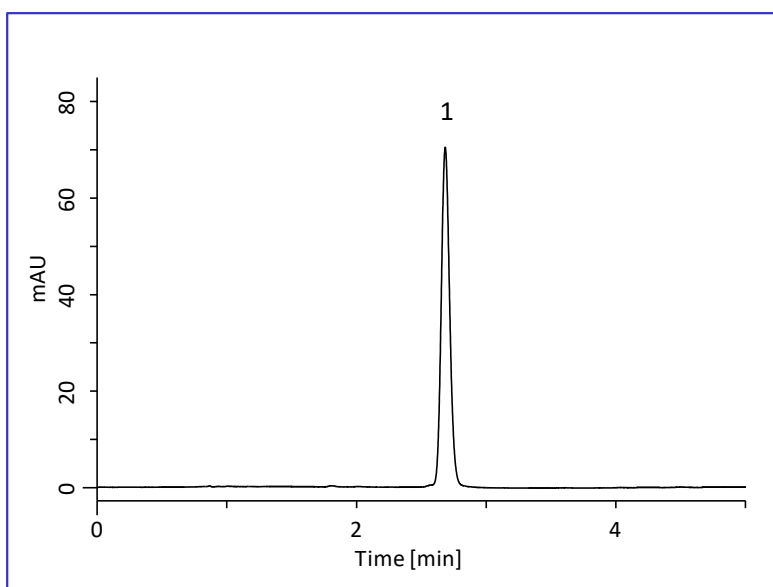


HPLC Conditions

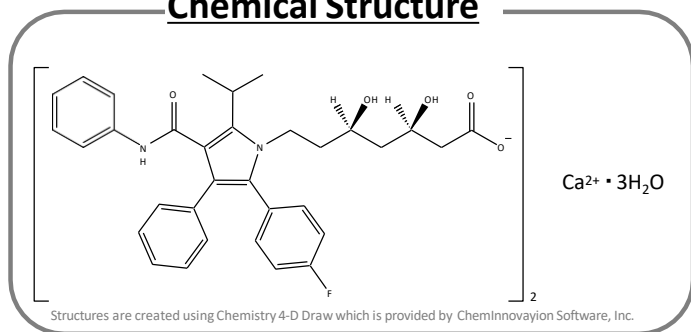
Column	: Inertsil C8-4 HP (3 μ m, 100 x 4.6 mm I.D.)
Column Cat. No.	: 5020-14057
Eluent	: A) CH ₃ CN B) 50 mM CH ₃ COONH ₄ (pH 5.0, CH ₃ COOH) A/B = 50/50, v/v
Flow rate Col.	: 1.0 mL/min
Temp.	: 25 °C
Detection	: UV 240 nm
Injection Vol.	: 5 μ L

A chromatogram obtained from tablet sample

The sample concentration was adjusted to 40 mg/L as atorvastatin.



Chemical Structure



A Sample Pretreatment Method for Tablet Sample

Sample

- Grind tablet into powder
- Weigh the powder equivalent to 40 mg of atrovastatin

Extraction

- Add 80 mL of mobile phase Sonication ex
- 5 min
- Make up to 100 mL with mobile phase

Filtration

- 0.45 µm membrane filter

Dilution

- 10-fold dilution with mobile phase

HPLC

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