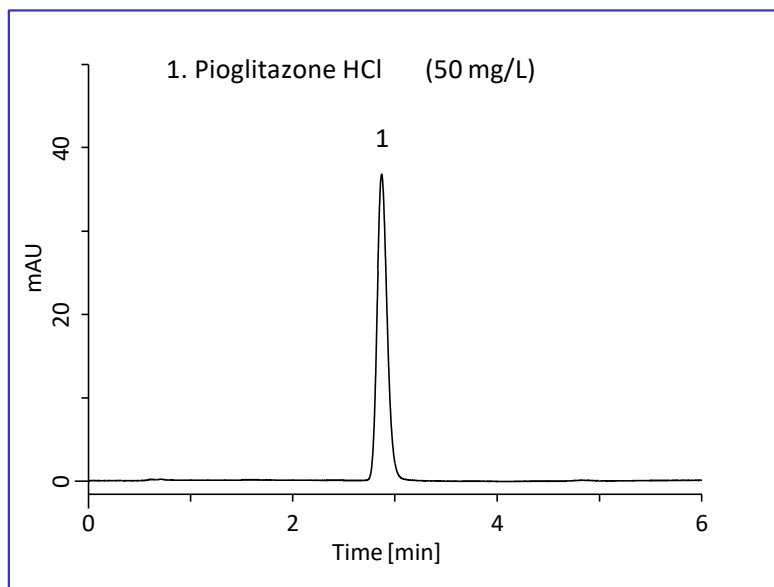


Analysis of Pioglitazone Hydrochloride

Among diabetes mellitus, type II diabetes is caused by insulin resistance. Pioglitazone hydrochloride, which is a member of the class thiazolidinedione, is often used for treating type II diabetes because it reduces insulin resistance in liver and improves hyperglycemia.

In this note, chromatograms of pioglitazone based on the eluent condition described in the United States Pharmacopeia (USP) are shown. Using Inertsil ODS-4, sharp peak was obtained from tablet samples as well as standard solution.

A Chromatogram obtained from standard solution

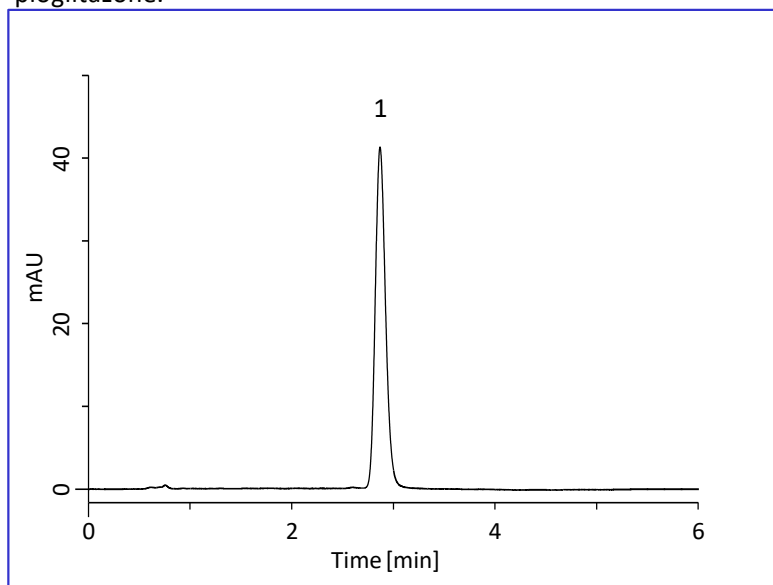


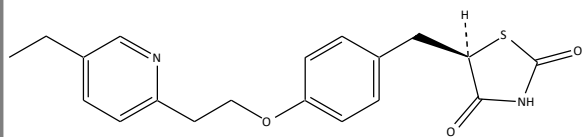
HPLC Conditions

Column	: Inertsil ODS-4 HP (3 μ m, 50 x 4.6 mm I.D.) Column Cat. No. : 5020-14068
Eluent	: A) CH ₃ CN B) 0.1 M CH ₃ COONH ₄ C) CH ₃ COOH A/B/C = 25/25/1, v/v/v
Flow rate Col.	: 0.7 mL/min
Temp.	: 27 °C
Detection	: UV 269 nm
Injection Vol.	: 6.5 μ L

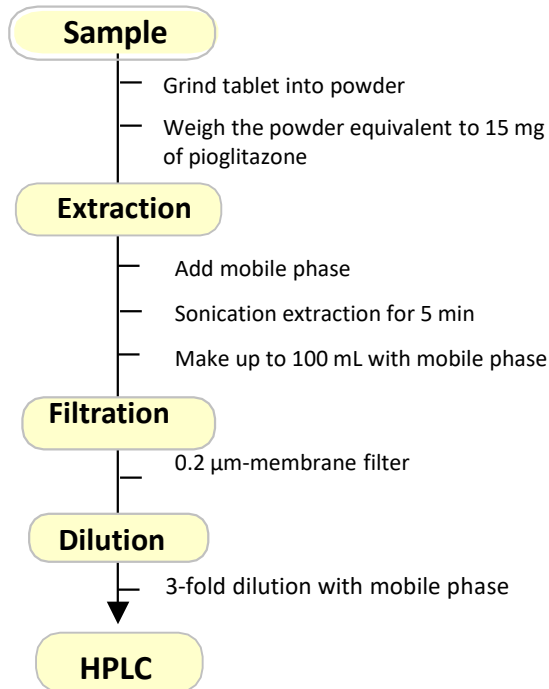
A chromatogram obtained from tablet sample

The sample concentration was adjusted to 50 mg/L as pioglitazone.



Chemical Structure

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

A sample pretreatment method for tablet sample

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