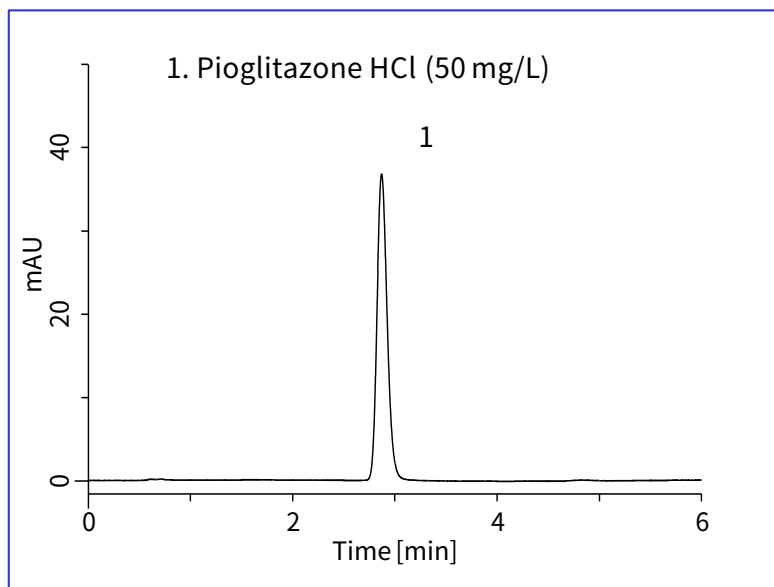


Among diabetes mellitus, type II diabetes is caused by insulin resistance. Pioglitazone hydrochloride, which is a member of the class thiazolidinedione, is often used for treating type II diabetes because it reduces insulin resistance in liver and improves hyperglycemia.

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

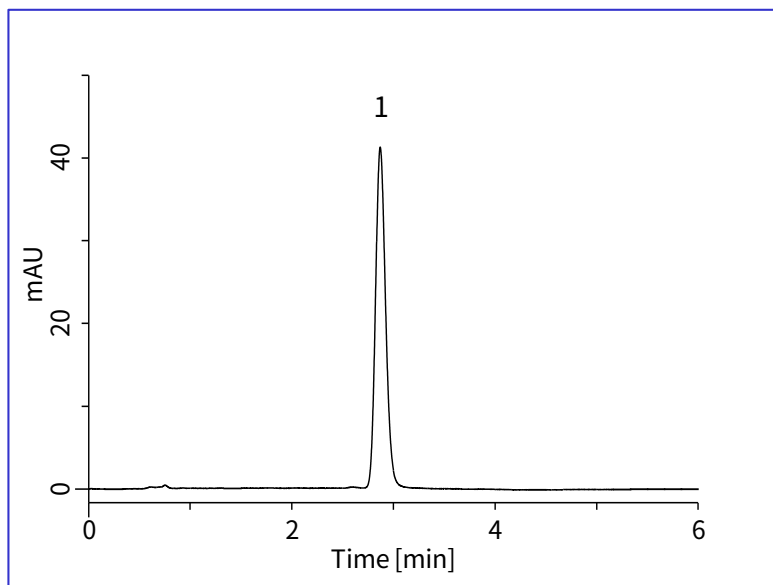


HPLC Conditions

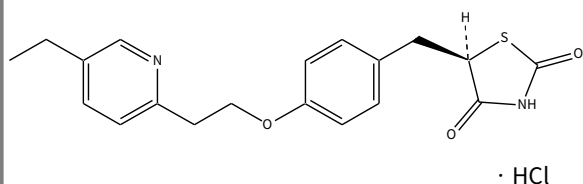
Column	: Inertsil ODS-4 HP (3 μ m, 50 x 4.6 mm I.D.)
Column Cat. No.	: 5020-14068
Eluent	: A) CH ₃ CN B) 0.1 M CH ₃ COONH ₄ C) CH ₃ COOH A/B/C = 25/25/1, v/v/v
Flow rate	: 0.7 mL/min
Col. Temp.	: 27 °C
Detection	: UV 269nm
Inj. Volume	: 6.5 μ L

A chromatogram obtained from tablet sample

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

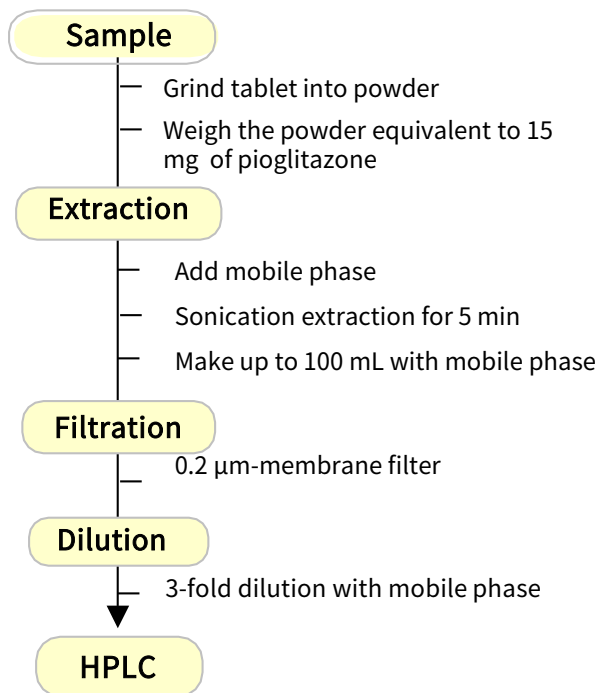


Chemical Structure



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

A sample pretreatment method for tablet sample



GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

GL Sciences Inc. Japan

22-1 Nishishinjuku 6-chome
Shinjuku-ku, Tokyo
163-1130, Japan

Phone: +81-3-5323-6620
Fax: +81-3-5323-6621
Email: world@glsc.co.jp
Web: www.glsciences.com

GL Sciences Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503
USA

Phone: +1-310-265-4424
Fax: +1-310-265-4425
Email: info@glsciencesinc.com
Web: www.glsciencesinc.com

GL Sciences B.V.

Dillenburgstraat 7C
5652AM, Eindhoven
The Netherlands

Phone: +31-40-254-9531
Email: info@glsciences.eu
Web: www.glsciences.eu

GL Sciences (Shanghai) Limited

Tower B, Room 2003
Far East International Plaza
No.317 Xianxia Road, Changning District
Shanghai, China 200051

Phone: +86-21-62782272
Email: contact@glsciences.com.cn
Web: www.glsciences.com.cn



International Distributors

Visit our Website at www.glsciences.com/distributors