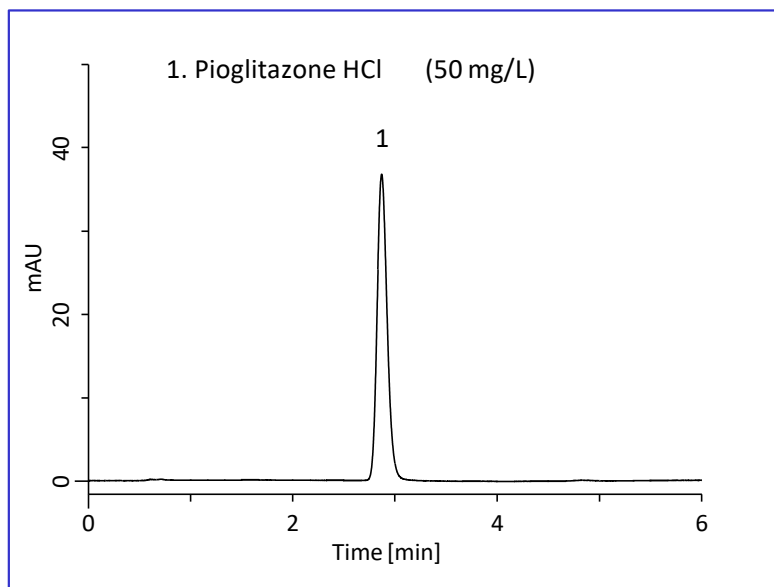


Among diabetes mellitus, type II diabetes is caused by insulin resistance. Pioglitazone hydrochloride, which is a member of the class thiazolidinedione, is often used for treating type II diabetes because it reduces insulin resistance in liver and improves hyperglycemia.

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

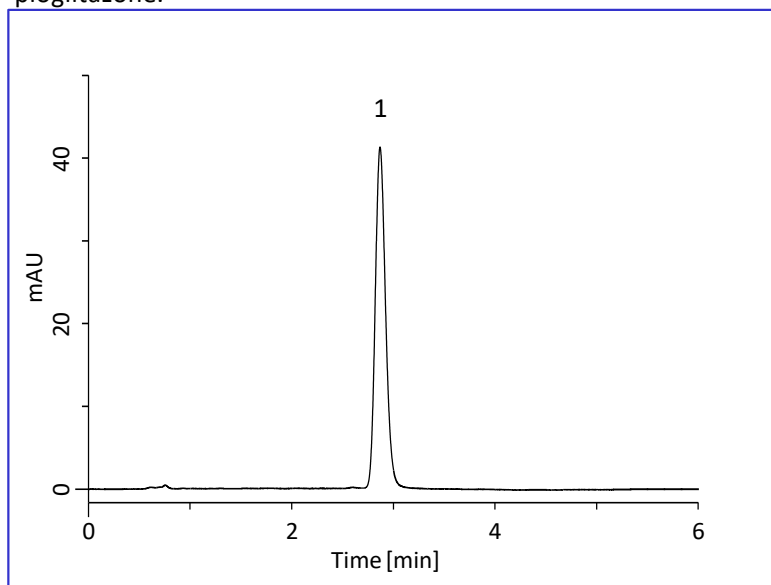


HPLC Conditions

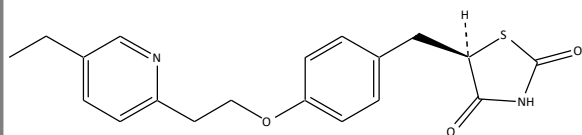
Column	: Inertsil ODS-4 HP (3 μ m, 50 x 4.6 mm I.D.) Column Cat. No. : 5020-14068
Eluent	: A) CH ₃ CN B) 0.1 M CH ₃ COONH ₄ C) CH ₃ COOH A/B/C = 25/25/1, v/v/v
Flow rate Col.	: 0.7 mL/min
Temp.	: 27 °C
Detection	: UV 269 nm
Injection Vol.	: 6.5 μ L

A chromatogram obtained from tablet sample

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



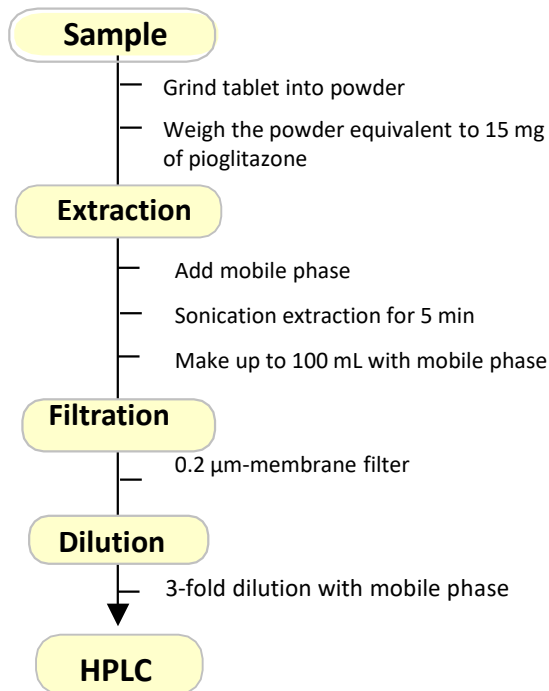
Chemical Structure



• HCl

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation 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

Phc
Fax **Inertsil Ph-3**

Email: world@gis.co.jp

Web: www.glsciences.com

GL Sciences B.V.

De Sleutel 9
5652 AS Eindhoven
The Netherlands

Phone: +31 (0)40 254 95 31
Email: info@glscienc.es

Web: www.glsciences.eu

GL Sciences (ShangHai) Ltd.

Tower B, Room 2003,
Far East International Plaza,
NO,317 Xianxia Road,
Changning District.

Shanghai, China P.C. 200032

Phone: +86 (0)21-6278-2272

Email: contact@glscienc.es.com.cn

Web: www.glsciences.com.cn

GL Sciences, Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503

Phone: 310-265-4424

Fax: 310-265-4425

Email: info@glscienc.esinc.com

Web: www.glsciencesinc.com

International Distributors

Visit our Website at:

<https://www.glsciences.com/company/distributor.html>