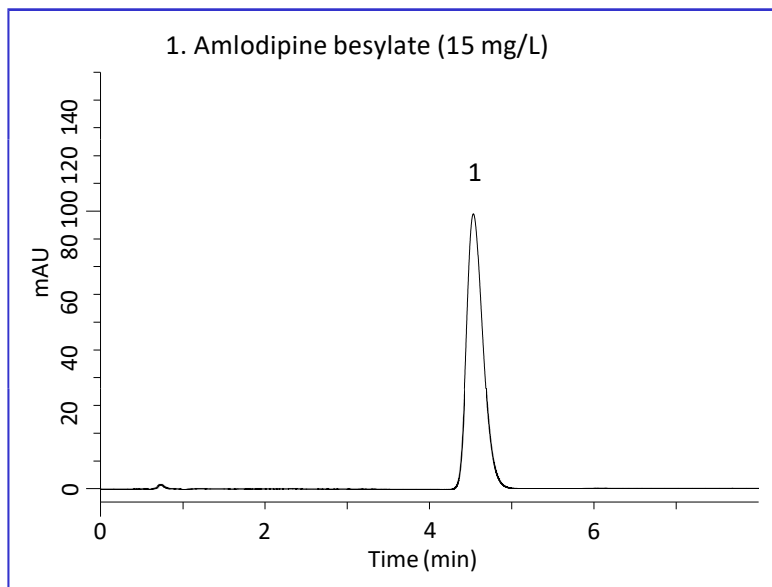


Amlodipine is an antihypertensive and a member of dihydropyridine class of calcium channel blockers. It relaxes the smooth muscle in the arterial wall by inhibiting calcium influx across cell membrane. Consequently, peripheral resistance is decreased, and blood pressure is reduced.

In this note, chromatograms of amlodipine based on the 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

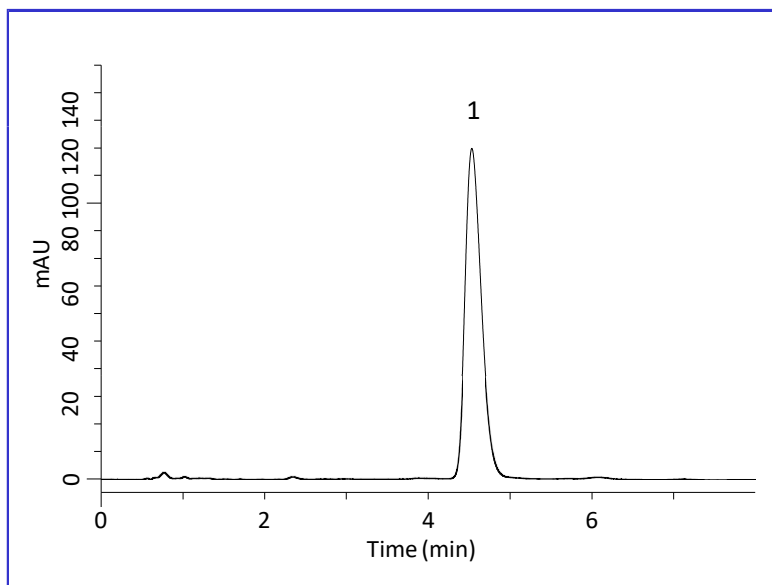


HPLC Conditions

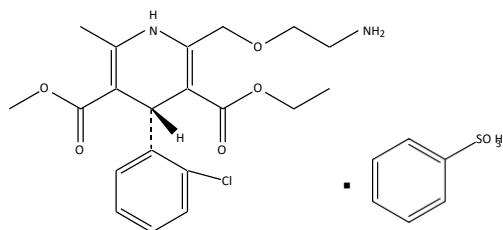
Column	: Inertsil ODS-4 HP (3 μ m, 50 x 4.6 mm I.D.)
Column Cat. No.	: 5020-14068
Eluent	: A) CH ₃ OH B) CH ₃ CN C) 0.7 % Triethylamine in H ₂ O (pH 3, H ₃ PO ₄) A/B/C = 7/3/10, v/v/v
Flow rate	: 1.0 mL/min
Col. Temp.	: 25 °C
Detection	: UV 237 nm
Inj. Volume	: 70 μ L

A chromatogram obtained from tablet sample

The sample concentration was adjusted to 20 mg/L as amlodipine besylate.

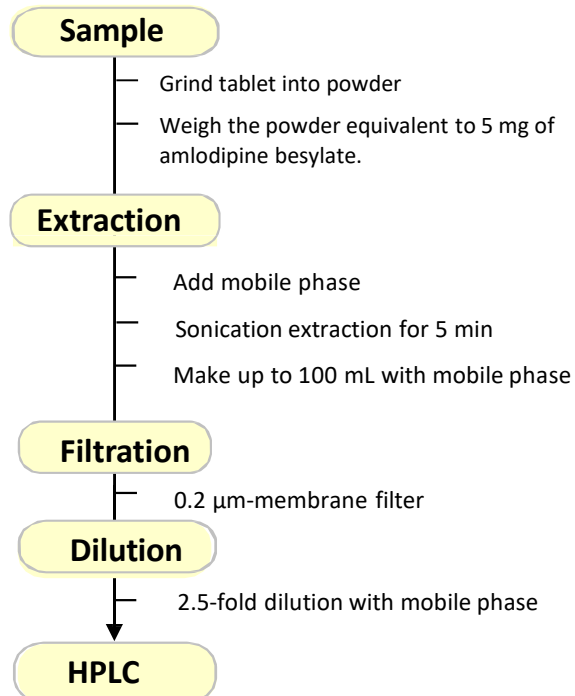


Chemical Structure



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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GL Sciences, Inc. Japan

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

Phc
Fax **Inertsil Ph-3**

Email: world@glsc.com.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@glsciences.eu

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@glsciences.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@glsciencesinc.com

Web: www.glsciencesinc.com

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