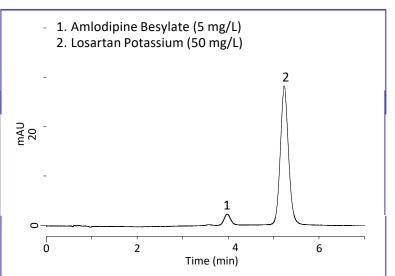
Analysis of Amlodipine and Losartan Potassium

IT128 GL Sciences Inc.

Both amlodipine and losartan potassium are sold worldwide as drug for hypertension. Combination drug containing the two is also studied.

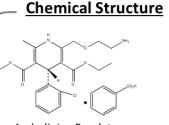
In this note, chromatograms of simultaneous analysis of amlodipine and losartan were shown under two different HPLC condition using Inertsil ODS-4. Condition 1 is based on the assay of amlodipine besylate tablets of United States Pharmacopeia (USP). Condition 2 is a method using eluent of simpler composition. Application for each individual ingredient is also shown in LC technical note No.98 and No.126.

HPLC Condition 1 Standard Solution



Tablet Sample

The sample concentration was adjusted to 5 mg/L and 50 mg/L as amlodipine and losartan potassium, respectively.

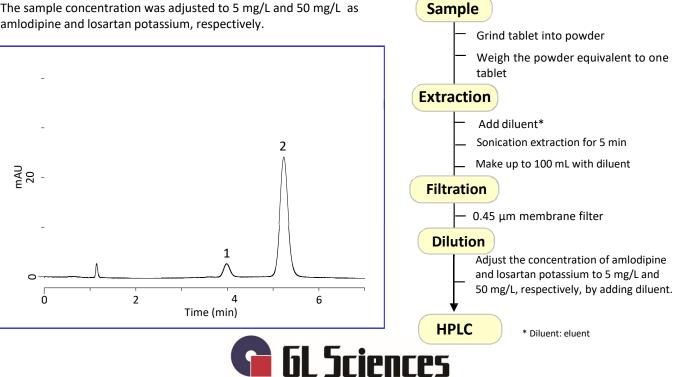


Amlodipine Besylate Losartan Potassium Structures are created using Chemistry 4-D Draw which is provided by ChemIn

Conditions

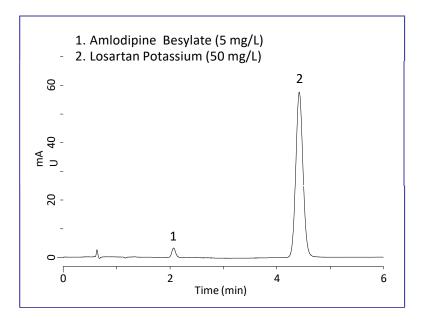
Column	: Inertsil ODS-4 HP
	(3 μm, 50 x 4.6 mm l.D.)
Cat. No.	: 5020-14068
Eluent	: A) CH₃OH
	B) CH ₃ CN
	C) 0.7 % Triethylamine
	(pH 3.0, H ₃ PO ₄)
	A/B/C =7/3/10, v/v/v
Flow rate	: 1.0 mL/min
Column Temp.	: 25 °C
Detection	: UV 237 nm
Injection Vol.	:5μL

Example of Pretreatment Method for Tablet Sample



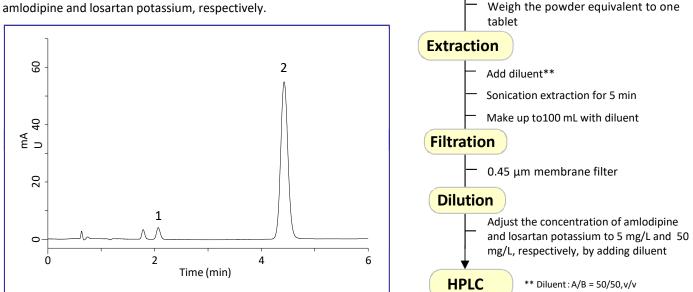
HPLC Condition 2

Standard Solution



Tablet Sample

The sample concentration was adjusted to 5 mg/L and 50 mg/L as amlodipine and losartan potassium, respectively.



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GL Sciences (ShangHai) Ltd.

Conditions

Column

Cat. No.

Eluent

Flow rate

Column Temp. Detection

Injection Vol.

Sample

: Inertsil ODS-4 HP

: 5020-14068

: A) CH₃CN

2.5, H₃PO₄)

: 30 °C

:5 µL

Grind tablet into powder

Example of Pretreatment Method for Tablet Sample

A/B =35/65, v/v : 1.0 mL/min

: UV 226 nm

(3 μm, 50 x 4.6 mm l.D.)

B) 0.02 % Triethylamine (pH

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