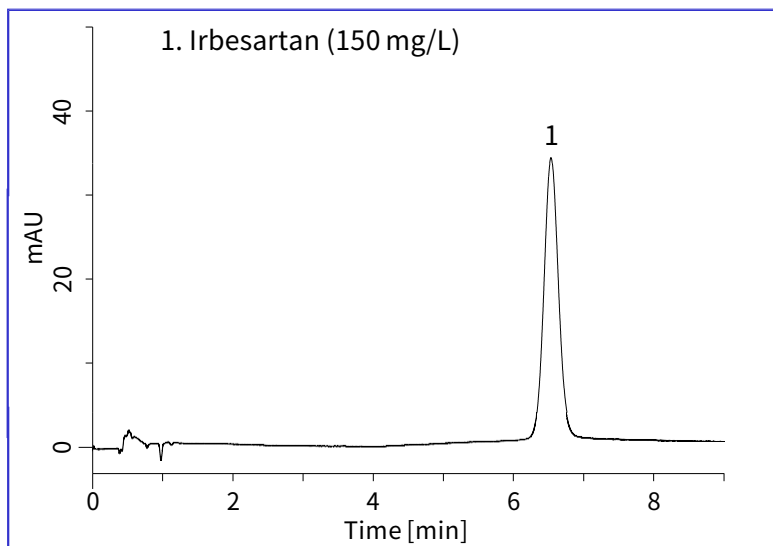


Irbesartan, which is a type of angiotensin II receptor antagonists same as valsartan (LC technical notes No. 99), is used mainly for the

treatment of hypertension.

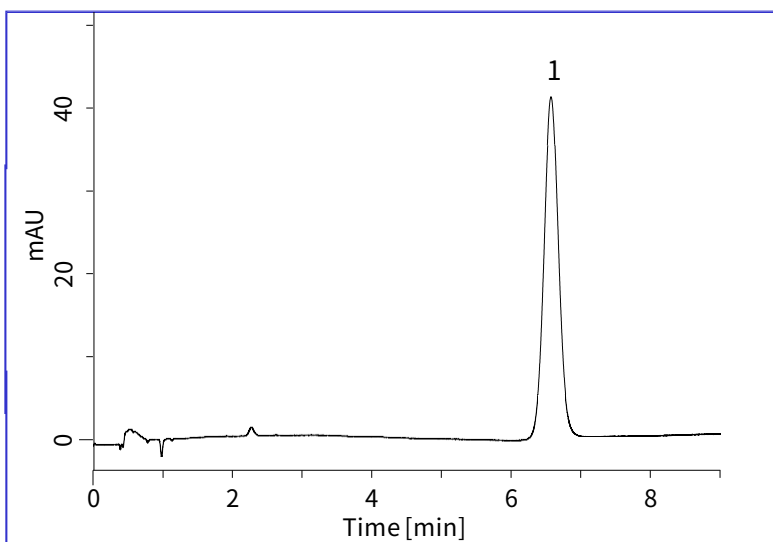
In this note, chromatograms of irbesartan based on the condition described in the United States Pharmacopeia (USP) are shown. Using Inertsil ODS-4, sharp peak was obtained because of its inertness.

Standard solution

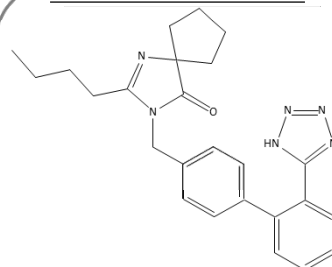


Tablet sample

The sample concentration was adjusted to 150 mg/L as irbesartan.



Chemical Structure



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

Conditions

Column	: InertSustain C18 HP (3 μ m, 50 x 4.6 mm I.D.)
Column Cat. No.	: 5020-14068
Eluent	: A) CH ₃ CN B) Buffer*
	A/B = 33/67, v/v
Flow rate	: 1.25 mL/min
Column temp.	: 25 °C
Detection	: UV 220 nm
Injection vol.	: 2 μ L

* Buffer: To 950 mL of purified water, 5.5 mL of phosphoric acid was dissolved. Triethylamine was added to adjust its pH value to 3.2. The solution was made up to 1000 mL with purified water.

An Example of Pretreatment Method for Tablet Sample

Sample

- Grind tablet into powder
- Weigh the powder equivalent to 15 mg of irbesartan.

Extraction

- Add 80 mL of diluent**
- Sonication extraction for 5 min
- Make up to 100 mL with diluent

Filtration

- 0.45 μ m membrane filter

HPLC

** Diluent: CH₃CN /H₂O = 50/50, v/v

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.

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