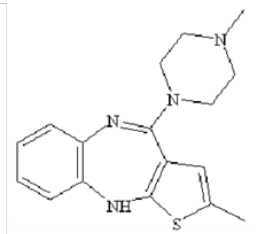


Olanzapine is a psychotropic drug. It is used for the treatment of schizophrenia and bipolar disorder. It is classified into atypical antipsychotic, which has fewer adverse effect, such as extrapyramidal disturbance and hyperprolactinaemia, than typical antipsychotic.

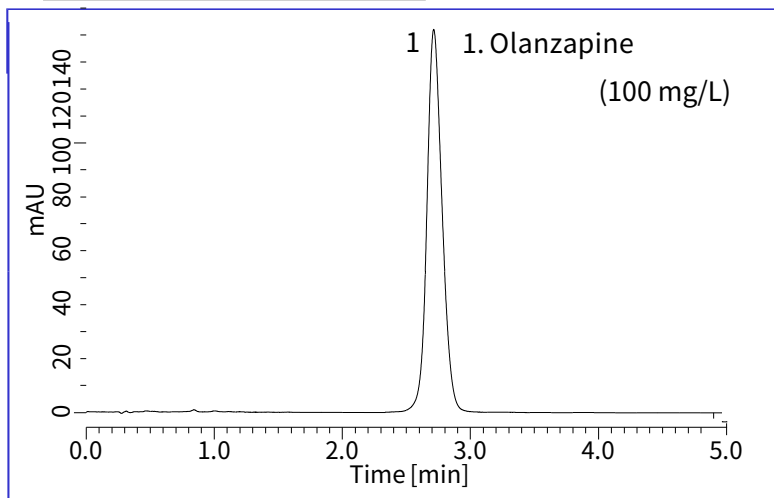
In this note, olanzapine was analyzed under a condition based on United States Pharmacopeia (USP). Obtained peak shape was excellent, which suggests Inertsil C8-4 should be suitable for rapid analysis of olanzapine.

Chemical Structure



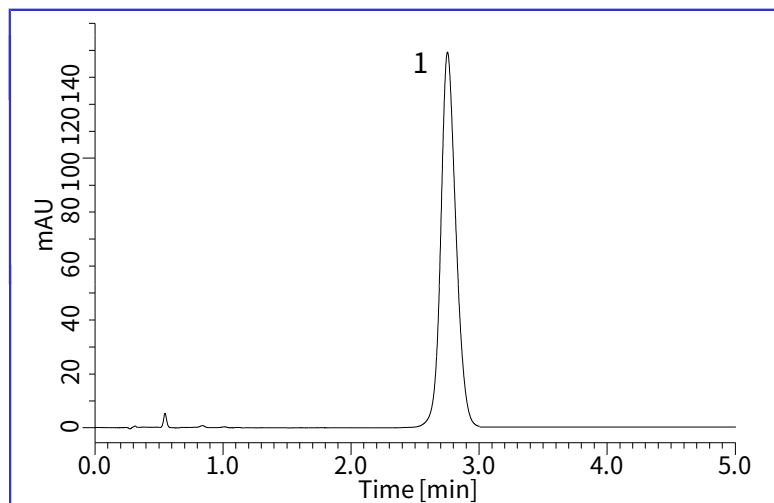
Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

Standard Solution



Tablet Sample

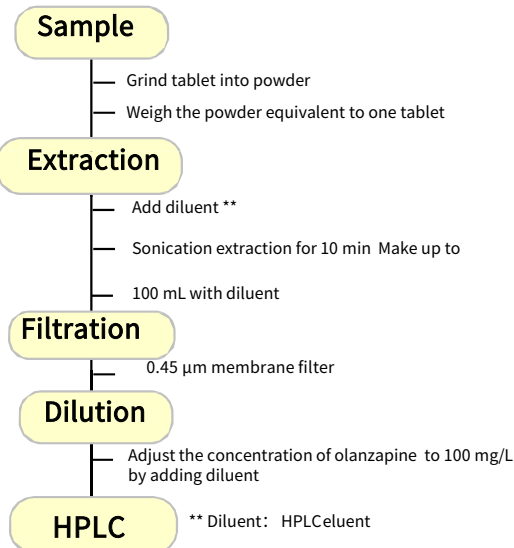
The sample concentration was adjusted to 100 mg/L as olanzapine.



Conditions

Column	: Inertsil C8-4 HP (3 μm, 50 x 4.6 mm I.D.)
Column Cat. No.	: 5020-14078
Eluent	: A) CH ₃ CN B) 6.9 g/L NaH ₂ PO ₄ (pH 2.5, H ₃ PO ₄) + 12 g/L Sodium dodecyl sulfate A/B = 50/50, v/v
Flow rate	: 1.5 mL/min
Column Temp.	: 25°C
Detection	: UV 260 nm
Injection Vol.	: 7 μL

Example of 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.

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