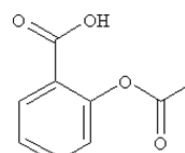


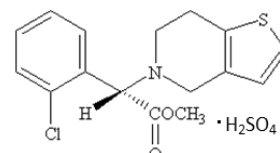
Clopidogrel is an antiplatelet agent. It is used for treatment of thrombosis, such as stroke and myocardial infarction. Aspirin, which is famous as a non-steroidal anti-inflammatory drug (NSAID), also has an antiplatelet effect.

Advantages and safety of combination drug of clopidogrel and aspirin have been studied and discussed. In this note, clopidogrel and aspirin were successfully separated by using Inertsil ODS-4 with superior peak shapes.

Chemical Structure



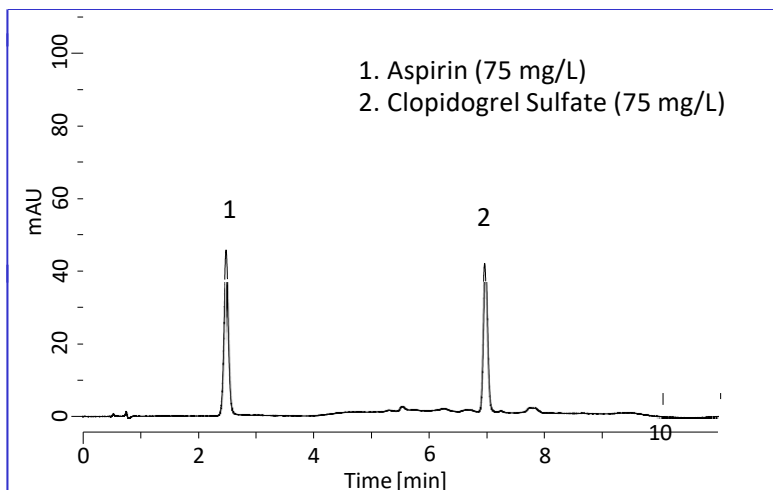
Aspirin



Clopidogrel Sulfate

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

Standard Solution



Conditions

Column : Inertsil ODS-4 HP
(3 μm, 50 x 4.6 mm I.D.)

Column Cat. No. : 5020-14068

Eluent : A) CH₃CN
B) 20 mM KH₂PO₄ (pH 3.0, H₃PO₄) A/B =
25/75 -2.5 min- 25/75 -1.5 min-70/30 -4
min- 70/30 -1 min-25/75 -3 min- 25/75, v/v
: 1.0 mL/min

Flow rate

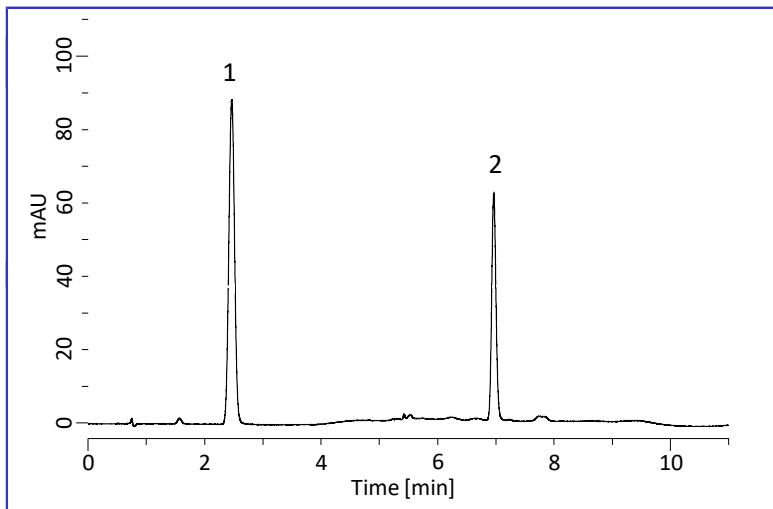
Column Temp. : 25 °C

Detection : UV 240 nm

Injection Vol. : 5 μL

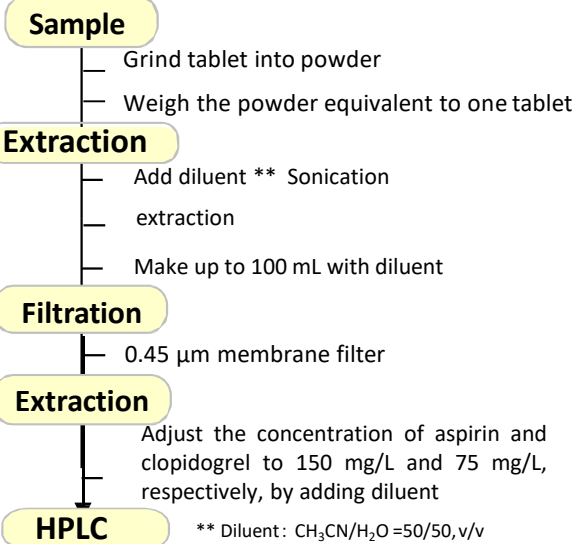
Tablet Sample

The sample concentration was adjusted to 150 mg/L and 75 mg/L as aspirin (acetylsalicylic acid) and clopidogrel, respectively.



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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