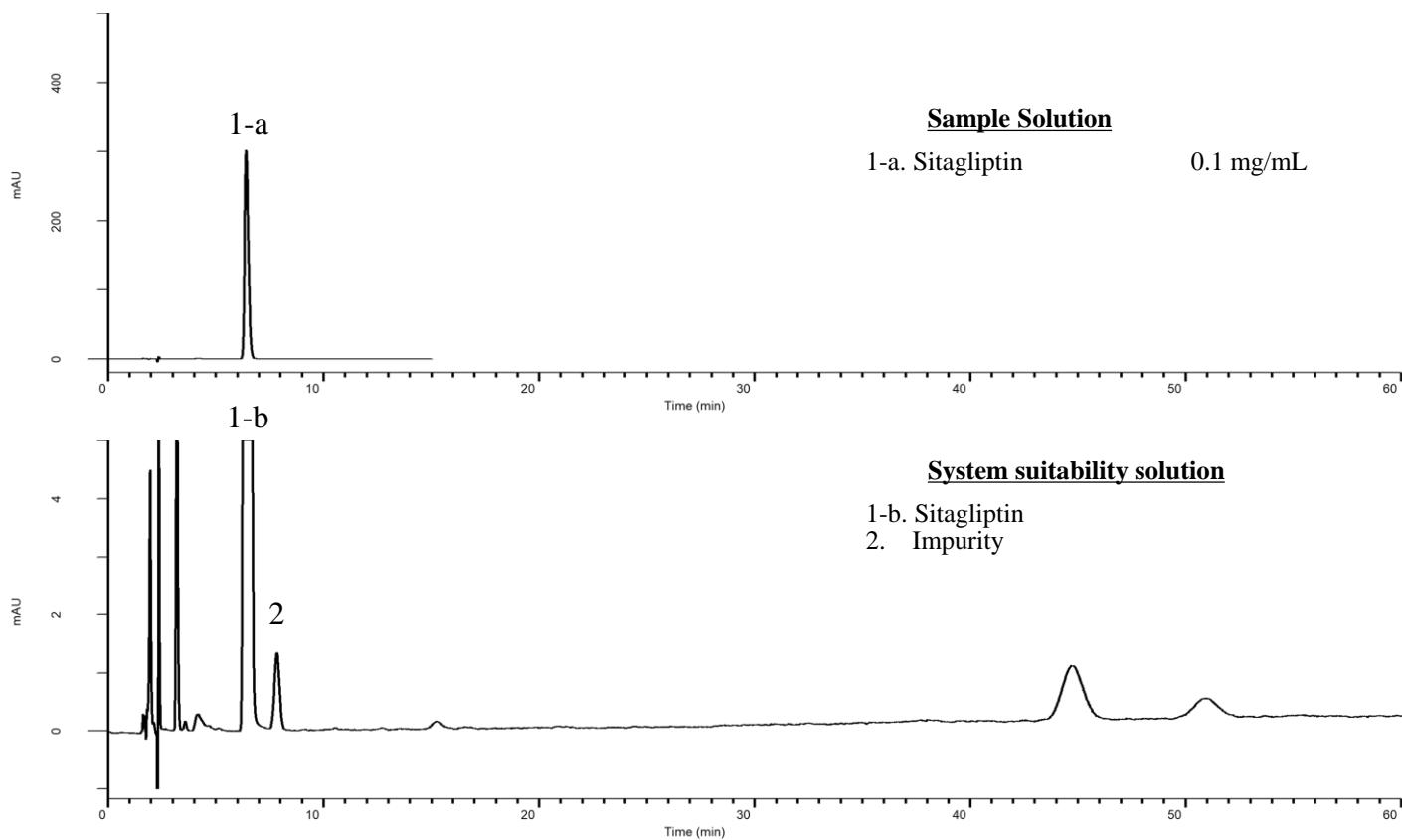


Analysis of Sitagliptin

(Under the Condition of the draft for the Japanese Pharmacopoeia,
Sitagliptin Phosphate Hydrate)



Conditions

System : GL7700 HPLC system
Column : InertSustain Cyano
($5 \mu \text{m}$, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-89276
Eluent : A) Buffer*
B) CH_3CN
A/B = 85/15, v/v

Flow Rate : 1.0 mL/min
Col. Temp. : 30 °C
Detection : UV 205 nm (PD7752 PDA Detector)
Injection Vol. : 20 μL
Sample : Standard

*Dissolve 1.36 g of KH_2PO_4 in 900 mL of water.

Adjust pH 2.0 by phosphoric acid.

Add water to make 1,000 mL.

Analyte:

1. Sitagliptin

Resolution (1-b, 2) : 3.76 (≥ 1.5)
Relative retention time (2 to 1-b) : 1.22 (about 1.2)

【NOTE】

When using a brand new column,
fully equilibrate with the eluent at 1 mL/min
for at least 24 hours prior to the analysis.