

a. Short Term Stability at Room Temperature

The stability after short term storage at room temperature was 98.15% for QC Low, 100.09% for QC Mid and 103.52% for QC High.

b. Post-Preparative Stability {Auto-sampler Stability}

The auto-sampler stability at 15 °C was 98.18% for QC Low, 100.47% for QC Mid and 101.25% for QC High.

c. Freeze and Thaw stability over three cycles

The freeze and thaw stability after 3 cycles was 97.32% for QC Low, 101.05% for QC Mid and 102.81% for QC High.

It was concluded that freezing and thawing spiked plasma samples over three cycles does not alter the integrity of rhein.

d. Long Term Stability at -30° C

The stability after long term storage at -30° C for 3 weeks was 97.12% for QC Low, 99.09% for QC Mid and 99.68% for QC High..

e. Drug and Internal Standard Stock Solution Stability:

The stock solutions stability of drug and the internal standard at room temperature after 24 hours were 99.55% and 101.05% respectively. The in-refrigerator stability after 4 weeks of stock solutions stability of drug and the internal standard were 99.17% and 98.59% respectively.