

3.1 Krebs buffer validation

3.1.1 Intra-day validation

3.1.1.1 Accuracy

Validation for days 1-3

Accuracy % range of the six replicates of LLOQ for days 1, 2 and 3 were (96.15%-108.02%), (102.91%-109.26%) and (98.26%-112.40%), respectively. Regarding accuracy % values of QC low six replicates for days 1, 2 and 3 they were (98.92%-109.64%), (98.80%-110.47%), and (100.20%-111.75%), respectively. The accuracy % values of the six replicates of QC mid were (105.64%-109.09%), (98.40%-109.02%), and (104.92%-108.94%) for days 1, 2 and 3, respectively, whereas accuracy % values of QC high were (101.00%-105.16%), (99.39%-105.93%) and (98.27%-106.01%) for day 1, 2 and 3, respectively. Highest accuracy % of mean predicted values was shown by QC mid for day 1 and day 3 of 107.36% and 106.90%, respectively, while LLOQ had the highest accuracy % on the second day of validation of 105.69%. By contrast, the lowest accuracy % of mean predicted value was obtained by LLOQ, QC low and QC high of 103.38%, 104.29% and 103.21% for day 1, 2 and 3, respectively (**Tables 3.2, 3.3 and 3.4**).