**Worksheet 1: Calculate TE 703**

|  |  |  |  |
| --- | --- | --- | --- |
| **Analyte** | **Mean** | **True Value****(target)** | **SD** |
| WBC, Total Count (cell \* 109/L) | 18.0 | 18.2 | 1.2 |
| Potassium (mmol/L) | 3.8 | 3.5 | 0.1 |
| Creatinine (umol/L) | 90 | 90 | 4 |
| Platelet Count (cell \* 109/L) | 160 | 150 | 7 |
| Glucose (mmol/L) | 6.5 | 6.7 | 0.2 |
| Calcium (mmol/L) | 2.26 | 2.25 | 0.03 |

**Worksheet 1: Calculate TE 703**

**Directions: Using the key numbers supplied on the previous page, complete the following table. The first two rows have been populated as a guide.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Analyte** | **Bias**-True Value | **l Bias l**(abs bias)| -True Value| | **TE in units**Abs Bias + (1.65\*SD) | **%CV**(SD /)\*100% | **Abs Bias %**(Abs Bias /True Value) \*100% | **TE in %**Abs Bias % + (1.65\* %CV) |
| WBC | 18.0 – 18.2 =-0.2 | 0.2 | 0.2 + 1.65 \*1.2= 2.2 | (1.2 /18.0)\*100%= 6.7% | (0.2 / 18.2)\* 100% =1.1% | 1.1% + 1.65 \*6.7% =12.2% |
| Potassium | 3.8 – 3.5= 0.3 | 0.3 | 0.3 + 1.65 \*0.1=0.5 | (0.1/ 3.8)\*100%= 2.6% | (0.3/ 3.5) \* 100%= 8.6% | 8.6% + 1.65 \*2.6%= 12.9% |
| Creatinine |  |  |  |  |  |  |
| Platelet |  |  |  |  |  |  |
| Glucose |  |  |  |  |  |  |
| Calcium |  |  |  |  |  |  |