**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 |  |  |  |  |  |  |