Weight Performance Check

Expected Weight					
Weight Serial Number or Identifier					
"As left" value from last external calibration certificate					
Traceable Report Number					
Balance used					
Replicate 1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Replicate Average					
% Accuracy [1]					
Standard Deviation					
Coefficient of Variation					
*Acceptable for Use?					

Analyst:_____   Date: _____

Reviewed by:_____   Date:_____

Note: Any weight which is determined to be unacceptable for use will be immediately taken out of service and reported to the Unit Supervisor and or Quality Section.

*Acceptability criteria % Accuracy (+/-2%) SD, <1, Coefficient of Variation <3%,

Class 1 or Ultraclass weights ≤2% of expected weight as per the last calibration certificate other classes ≤ 5%

1. Percent Accuracy: $\dfrac{\text{(expected value – average value)}}{\text{(expected value)}} * 100$ [1] For expected value use "as left" value from certificate

2. Standard Deviation:
$$\sigma = \sqrt{\mathrm{E}((X - \mathrm{E}(X))^2)} = \sqrt{\mathrm{E}(X^2) - (\mathrm{E}(X))^2}$$

3. Coefficient of Variation: V = (σ / average value)*100

If an excel spreadsheet is used to calculate the %Accuracy, SD or Coefficient of Variation attach a copy of the spreadsheet for the reviewer.

Maintain this record in the Unit Logbook (paper or electronic) for this device.