Balance Performance Check   Balance ID:_____

	Low:	**Mid:**	**High:**	**Other if Required:**
Reference Weight ID				
Replicate				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
Average				
%Recovery				
Standard Deviation				
Coefficient of Variation				

Analyst: _____ Date: _____ Unit: _____

☐ Based on the performance of the acceptability criteria above the balance **meets** the criteria for use.

☐ Based on the performance of the acceptability criteria above the balance **does not meet** the criteria for use. The balance has been marked 'do not use'.

Reviewed by: _____ Date: _____

Acceptability criteria (for balances with a max load of ≤ 700g): %Recovery +/-2%, SD <1, Coefficient of Variation <3% * Acceptability criteria (for balances with a max load of ≥ 701g): %Recovery +/-5%, SD <1, Coefficient of Variation <3% *   *Units may require tighter tolerances based on the typical use of the balance.

1. Percent Recovery: $\dfrac{(\text{expected value} - \text{average value})}{(\text{expected value})} * 100$

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

3. Coefficient of Variation: $V = (\sigma\ /\ \text{average value}) * 100$

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

Maintain this record in the Unit Log book for this device.