

Pipette Performance Check

Volume Tested					
Pipette Serial Number or Identifier					
Balance used					
Replicate 1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Replicate Average					
% Accuracy ¹					
Standard Deviation (σ)					
Coefficient of Variation (V)					
*Acceptable for Use?					
<p>Analyst: _____ Date: _____</p> <p>Reviewed by: _____ Date: _____</p>					

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

- Percent Accuracy: $\frac{(\text{expected value} - \text{average value})}{(\text{expected value})} \times 100$

¹ For expected value use "as left" value from the current calibration certificate

- Standard Deviation:

$$\sqrt{\frac{\sum (x - \bar{x})^2}{(n-1)}}$$

where x = sample mean average and n = sample size

- Coefficient of Variation: $V = (\sigma / \text{average value}) \times 100$

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

File this completed form in the appropriate Unit Log Book or with the Quality Section.