

GL 21.5 Pipette performance check*Approved by Director: Dr. Guy Vallaro*

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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					
% Recovery ¹					
Standard Deviation					
Coefficient of Variation					
*Acceptable for Use?					
Analyst: _____ Date: _____					
Reviewed by: _____ Date: _____					

*Acceptability criteria % recovery (98-102%) SD, <1, Coefficient of Variation <3%,

1. Percent Recovery: (average/expected value)*100

¹ For expected value use "as left" value from certificate

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.

**State of Connecticut Department of Emergency Services and Public Protection
Division of Scientific Services**

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

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