

GL 21.5 Pipette performance check

Document ID: 17805

Revision: 3

Effective Date: 01/30/2023

Status: Published

Page 1 of 1

*Approved by Director: Dr. Guy Vallaro***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 (σ)					
Coefficient of Variation (V)					
*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:

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

x = sample mean average n = sample size

3. Coefficient of Variation: V = (σ / 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.

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

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

Documents outside of the QMS are considered uncontrolled.