

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF FOOD SAFETY AND LABORATORY SERVICES
LABORATORY DIVISION

Facility/Laboratory Name: _____

Coefficient of variation (C_v) for Repeatability for Electronic Optical Somatic Cell Counters.

COUNT	D	D ²
Σx =		

1. Σx = _____ Sum of the 10 counts
2. x = _____ Mean (average) of the 10 counts
3. D Difference from the Mean
4. D² Square of the Differences
5. Σ D² = _____ Sum of Squares of Differences
6. n = _____ Number of counts
7. S_d = $\sqrt{\Sigma D^2/n-1}$ = _____ Standard Deviation
8. C_v = S_d · 100/ x = _____ Coefficient of Variation.

Note: Coefficient of Variation(C_v) must be (less than or equal to) ≤ 5%.