

# Monthly QC Peer Review Report for ABC Laboratory

**AUDIT Product No.:** K061M-8  
**Lot No.:** 06300  
**Expiration Date:** 07/21/13  
**Testing Performed:** 11/11/11

**Coefficient of Variation (CV)** is a measure of variability (random error or imprecision).

Calculation:  $\frac{1 \text{ standard deviation (s)}}{\text{Mean Value}} \times 100\%$

Example:  $\frac{25 \text{ mg/dl}}{250 \text{ mg/dl}} \times 100\% = 10.0\% \text{ CV}$

**Coefficient of Variation Ratio (CVR) or CVI, Coefficient of Variation Index** is ideally  $\leq 1.0$ , since your values are from a single lab, while the peer CV is from several labs.

If CVR = 1.5 to 2.0, the lab is 50-100% less precise than its peer group, which will require investigation.

## **Standard Deviation Index, SDI**

Calculation:

$\text{SDI} = \frac{\text{Lab Mean} - \text{Peer Group Mean}}{\text{Peer Group's 1 standard deviation}}$

Used to assess bias compared to the peer group. TARGET SDI = 0.0, so the lab's mean value is the same as the peer's, therefore NO BIAS.

## **ABC Laboratory**

Based on review of your peer report QC data from the month of November, it is recommended that you take action for the following analytes:

**(LIST FAILED ANALYTES HERE OR STATE "N/A" OR "NONE")**

All other analytes compared with your peer group had SDI's and CV's within acceptable limits.

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

Deborah Sumner, Technical Consultant  
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