

		(A)	(B)	Uncertainty (SD)
SD (intra-assay)	N (intra-assay)	SEM (intra-assay)	SD (inter-assay)	$u = \sqrt{A^2 + B^2}$

Expanded Uncertainty (U) = 2 x u for 95% Confidence Level

Confidence Level	Mean	Low	High
1 SD (68.26%)			
2 SD (95.44%)			
3 SD (99.74%)			

1. Enter SD (intra-assay) and N of intra-assay to calculate Standard Error of the Mean (SEM) of the intra-assay precision (A) $SEM = SD(\text{intra-assay}) / \sqrt{N}$
2. Enter SD of the inter-assay precision (B) - for Uncertainty (SD) calculation
3. Enter the Mean of the Assay to calculate Confidence Limits
4. Round off the limits values to same decimal place as the Mean
(note: some assays may require the provided 3 decimal places)

