

USP <1116> and Contamination Recovery Rates

By **Scott Sutton, Ph.D.** Jan 9, 2013 1:26 pm EST

$$MPN = 2.303 * \log_{(10)} \frac{Total\ in\ Group}{Zeroes\ in\ Group}$$

MPN Equation.

Most of the plate counts should be “zero” The actual numerical plate counts seen are far below the limit of quantification (LOQ) for the plate count method. USP <1116> suggests using “percent contamination recovery rate” as the measure, but other options are available: The use of quality control (QC) control charts has been suggested for these data The use of most probable number (MPN) analysis has been suggested for analysis of these data-this may be a more appropriate method given the Poisson distribution of the data and its very low numbers. Limitations...

Source URL: <http://www.ivtnetwork.com/article/usp-and-contamination-recovery-rates>