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Mr. Steve Wasik
CEO
SIGG Switzerland
Walzmuhlestrasse 62
CH-8501 Frauenfeld

Steve,

Thanks for your inquiry about the term “LOQ” or Limit of quantitation (or quantification). From an analytical point of view, we define this as the smallest amount of analyte in a test sample that can be quantitatively determined **with suitable precision and accuracy**. Often, this is determined as a multiple of the standard deviation of a blank measurement. For example, it might be 5 or 10 times this measurement “noise.” In the case of our experiments for BPA leached from water bottles, the analyte is BPA and we reported an LOQ of 2 part per billion (ppb).

Below the LOQ, we believe that the measured value is unreliable because the error of the measurement is large and any value obtained below the LOQ is suspect. So, this level is NOT an indication that the SIGG bottles contain BPA between 0 and 2ppb.

While you might think that a measurable amount of BPA between 0 and 2ppb represents the presence of some quantity of BPA, this may not necessarily be correct. From a technical perspective, an instrument detector may not be linear to “zero” signal and therefore the numbers below the LOQ could be anomalous. Any values below the calculated LOQ should not be used as a true measure of the analyte.

If you have any other questions about the BPA analysis, please let us know.

Regards,

A handwritten signature in black ink, appearing to read "Jonathan Chun", written in a cursive style.

Jonathan Chun, Ph.D.
Director of Technology
Alliance Technologies, LLC