microbialinsights

CENSUS qPCR® & QuantArray® RESULTS YOU CAN TRUST

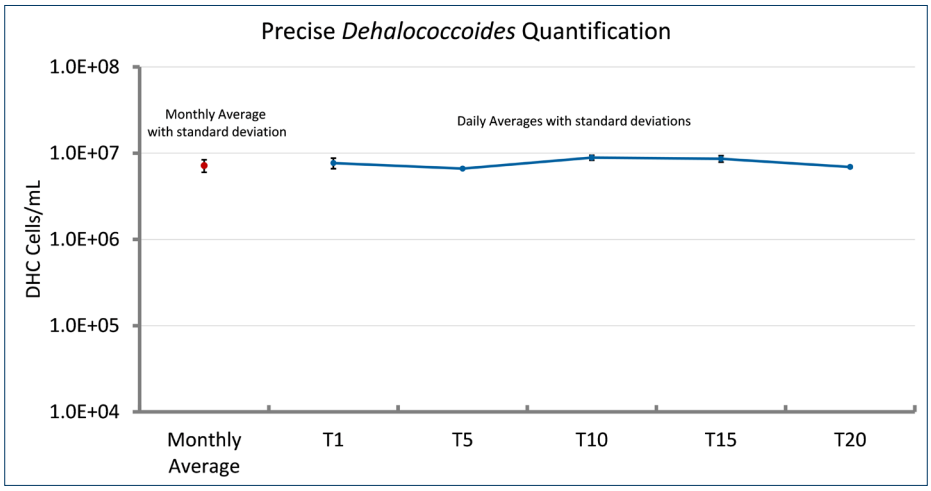
For almost 30 years, the primary mission at Microbial Insights (MI) has been to provide the most accurate and precise data in the industry because our clients rely on CENSUS qPCR® and QuantArray® results as a key line of evidence. To prove our labs are up to the challenge, we take every opportunity to test them.

ilac-MRA

ANAB ANSI National Accreditation Board ACCREDITED ISO/IEC 17025 TESTING LABORATORY

During ISO/IEC 17025 Accreditation

As shown in the figure below, our CENSUS qPCR and QuantArray® analyses for Dehalococcoides (DHC) are remarkably precise. Yes, error bars depicting standard deviations are shown. They are just hard to see!



Over a full month of ISO certification testing, performed by multiple MI staff scientists, and analyzed along with client samples submitted to the laboratory every day:

- **The overall standard deviation was an amazingly low 0.07 log**
- **The 99% confidence interval spanned only 0.06 log**

By way of comparison, DHC concentrations in environmental samples span more than seven orders of magnitude (7 log) with differences of one order of magnitude considered significant. Thus, CENSUS and QuantArray analyses easily have the precision needed to conclusively demonstrate significant differences in DHC concentrations over time and in response to site activities.

Why you can trust Microbial Insights

From sample prep through DNA extraction to analysis and reporting, CENSUS qPCR and QuantArray are not trivial procedures. The accuracy of MI's data is attributed not only to the quality of our assays, the experience of our scientists, and continued investment in instrumentation but perhaps most importantly, our rigorous QA/QC program. Our lab performs extraction blanks with every set of DNA extractions and run negative controls, positive controls and continuing calibration checks with every plate. These measures cost money and are the first corners cut by discount laboratories. At MI however, we will not compromise on data quality because our clients are worth it. And so is our reputation.

10515 Research Drive • Knoxville, TN 37932 • 865.573.8188 microbe.com