

Precautions To Consider When Conducting Verifications with the EnZtek Bacteria Detection Systems

EnZtek Diagnostic's tests detect bacterial enzymes. This is ideal for real world settings where bacteria can be found thriving, and especially when in an infectious state, bacteria produce large quantities of enzymes.

However, when bacteria are grown in an artificial, or lab setting, the life cycle of bacteria is a critical factor as bacteria will only produce enzymes at certain phases of its life cycle. (Please see the diagram at the bottom of this page.) Therefore, whenever any of EnZtek's products are verified using plated cultures, the cultures should not be any older than 16 to 18 hours. Any bacteria that is grown on a culture plate, must be grown on 5% blood agar. Blood agar is conducive to bacterial enzyme production. Other culture medias often inhibit enzyme production.

When testing fluids or serial dilutions, enzymes are dispersed throughout the fluid. Therefore, using a colorimetric test does not allow for enough concentrated bacterial enzyme to make a color reaction. Any fluids or serial dilutions would require the use of our fluorescent assay system to detect the measurable fluorescence released during the enzyme/substrate reactions.

The EnZtek Diagnostic test systems are designed for natural settings. If verification is desired, be aware of the precautions mentioned above. If you have any questions, please contact EnZtek Diagnostics.

