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MOST FREQUENTLY ASKED QUESTIONS ABOUT THE KACEY ANTIFREEZE (EGT) POISON TEST

Q. How soon after exposure can the test pick up an analyte positive test?

A. Approximately 30 minutes to one (1) hour after exposure depending upon a number of factors

1. The severity in the concentration of the poison and (2) the animals metabolism. (Note: A diluted sample from a car radiator may take longer to show a positive then consuming the antifreeze from a concentrated gallon).

3. The quantity consumed of either of the two concentrates mentioned above will be directly related on how soon the test can pick up the analyte and show a positive result.

Q. What is the window of opportunity to obtain a positive for the Ethylene Glycol Molecule (Antifreeze)?

A. The window of opportunity is from approximately 1- 13 hours depending on the metabolism of the animal, the concentration of the antifreeze, and the amount ingested. There are other factors that should be considered and they are the condition of the kidney & liver prior to the exposure.

Q. What is the expiration dating on the product?

A. The Kacey company ships the product to their distributors with no less than 14 month expiration dating. In some cases the product is shipped with 15 month dating.

Q. What animals can I use this test on to see if they had been exposed to Antifreeze?

A. The test can be used on both dogs & cats. (See color chart for cutoff levels)

Q. What is the difference in your color chart for LD & LOD?

A. LOD stands for Level of Detection and LD is a term closely associated with LD-50 which means 50% survival rate or sometimes more commonly referred to as the mortality rate.

Note: The Kacey LOD is 20mg/dL which just happens to be the LD 50 for cats. The LD-50 is marked on our color chart for dogs. Therefore, rarely will a cat survive at a concentration of 50mg/dl and will likely have expired.

Q. What type of sample is required to run the test? (Recommend a Lithium Heparin Tube)

A. A PLASMA sample is required and both whole blood & serum should not be used to run this test

Q. Why do I get a green ring around the perimeter of the test indented circle and the rest of the circle is white, with a tannish brown, and sometimes a light or dark yellow color?

A. All results that render this type of appearance in the “Indented Circle” are negatives. These are all indicators that the test is negative from impartial reactions that do not go to completion in identifying the analyte of Ethylene Glycol Molecule.

Q. What is the accuracy and Specificity of the test?

A. Accuracy is 97% & Coefficient of variation is 3%; Specificity is 98%

Q Are there any controls for this test?

A. A Bi-Level Control is available (Negative Control) 1 ml Bottle below 20 mg/dL & a Positive Control 1 ml Bottle @ 50 mg/dL). The liquid controls are stable for three (3) months.

Q. What are the factors that can render a FALSE POSITIVE?

A. Any item ingested that contains or can be converted to an alcohol; also liquor, artificial sweeteners, deicers

General Tidbits (Tiny Bits of Information)

1. Never walk with the test as spillage will definitely occur out of the indented circle rendering erroneous results.
2. Never use a bulb pipette or syringe to fill the ‘Indented Circle’ as too much sample will spill out of the circle and render erroneous results. The EG test requires a specific measured amount of plasma equal to 20 uL
3. (1000 uL are in one ml therefore one 50th of one (1) ml is required to perform this test)
4. Never place the test strip on a paper towel or let it rest on the table top or on the bench as the fluid will seep through and be absorbed on the paper towel rendering erroneous results. Place the test strip over the bottle top (like hanging over the edge of a cliff or like a diving board with the Indented Circle at the end of the diving board facing up).
5. Read the test in exactly at 10 minutes DO NOT TRY AND READ THE TEST before the allotted test time is completed. **You may start to see a green color appear but the color has to cover 100% of the entire “INDENTED CIRCLE” or else it is a negative.**

Anyone having any questions to add to this Q&A sheet please email them to sales@kaceyinc.org.