Qualitative Ethylene Glycol Assay.
(C504-0B)
Catachem’s Qualitative test uses the same enzymatic technology as its Quantitative assay and, although as a screening test it is subject to some interference, it offers the veterinarian a useful tool in a time sensitive emergency situation. The test kit is complete with all components (including a sampling syringe) needed to determine whether an animal has or has not ingested ethylene glycol. Each test uses a parallel control to ensure that reading errors are avoided. Each self-contained test kit is packaged with three individual tests.

The assay is sensitive to detecting ethylene glycol levels in plasma as low as 5 mg/dL (0.81 mM/L). Like its Quantitative counterpart, it is unaffected by ethanol treatments, allowing its use with animals on ethanol therapy during recovery.

Simple, Fast & Accurate

Ethylene Glycol is a common chemical with a sweet taste that is very attractive to animals. Most commercial antifreeze contains 95% ethylene glycol (Knight MW: Proc. Illinois State Vet Med Assoc. 1993.) The ingestion of ethylene glycol can quickly poison an animal and lead to irreversible liver and kidney (renal epithelial) damage, if poisoning is not rapidly detected and treated. 65 mL of 50% diluted antifreeze can cause death in a 10 lb. dog while only 15 mL can cause death in a 10 lb. cat, as cat’s organs are even more susceptible to damage caused by ethylene glycol toxicity (Beasley VR: Feline Pract. 15 (1) 41-46, 1985). The treatment for ethylene glycol poisoning is relatively simple if the poisoning can be detected early.

Quantitative Ethylene Glycol Assay.
(C504-0A)
Catachem has developed an accurate Quantitative test to determine ethylene glycol levels in plasma or serum. Values obtained with Catachem’s Quantitative test reagent compare closely to values obtained on GC/MS methods, (Jialal and Devaraj, Am. J. Clin. Pathol. 2011, 136:165-6). The assay is linear to an ethylene glycol level of 300 mg/dL (48.4 mM/L), (Juenke et al, Am J Clin Pathol 2011; 136:318-324.) Catachem’s reagent has also been designed to effectively eliminate interferences from propylene glycol, a chemical used as an additive in some veterinary drugs and foodstuffs. Catachem has numerous analyzer applications available for this Quantitative assay.

Qualitative Ethylene Glycol Assay.
(C504-0B)
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