AMOZ chromatographic diagnostic kit

Cat. No. Kit-1895 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The AMOZ chromatographic diagnostic kit is based on the specific immuno-chemical reactions between antigen and antibody. It relies on the competition between AMOZ residues in the sample and the AMOZ immobilized on T line on the membrane for the AMOZ antibody-dye conjugate. Since the drug has been presenting in the sample, it will compete with the drug immobilized on T line, to the limited amount of dye-antibody. As a sufficient amount of drug in the sample is presenting, the drug will saturate the antibody. Consequently, it will show an extremely light or even invisible T line, indicating a positive result. On the other hand, if there is a negative sample (or the amount of the drug is lower than the minimum detectable concentration, 0.5 ppb), it will generate two obvious lines in both the T and C line section.
Description	Furaltadone is one of the nitrofurans which are synthetic broad-spectrum antibiotics, a nd often used for their antibacterial properties in food-producing animals. Nitrofurans have been banned on treating animals used for food production, because of the possi bility of increased cancer risk if people are exposed to them over a long period of tim e. The European Union banned the use of nitrofurans in animal food production in 19 95 with the United States following suit in 2002. Going beyond the ban on the use of n itrofuran, the EU implemented a stricter food import inspection policy after nitrofuran r esidues were found in poultry, fish and shrimp. The analysis of residues of nitrofuran drugs needs to be based on the detection of the tissue bond metabolites of the nitrofu ran parent drugs. Since the parent drugs are very rapidly metabolized, they are not de tectable shortly after treatment. The tissue bound nitrofuran metabolites are detectabl e for a long time after administration and therefore they are used for the detection of t he abuse of nitrofurans. Nitrofuran metabolites are found after administration of Furaz

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	olidone (metabolite:3-amino-2-oxazolidinone = AOZ) Furaltadone (metabolite:3-amino-5-morpholino-methyl-2-oxazolidinone=AMOZ) Nitrofurantoin(metabolite:1-aminohydantoin = AHD) Nitrofurazone (metabolite:semicarbazide = SEM).
Kit Components	1. Test cassette2. Desiccant3. Dropper4. 10X Sample buffer (1 mL/ tube)5. Derivative reagent:1 bt/kit, 8 ML/bt
Compatible Sample Types	Fish; Shrimps; Chicken; Pork; Honey
Features & Benefits	• No instrumentation required• High specificity• High sensitivity• Highly reproducibility• Quick results
Sensitivity	Sample Cut-off (ppb)Fish, Shrimps, Chicken, Pork, Honey 0.5

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