Press Release

For Immediate Release

Date: September 4, 2024

Parasight's All-in-One fecal analyzer was identified as having superior capabilities in detecting parasites in dogs and cats.

Lexington, KY – September 4, 2024 – Parasight System Inc., a leading innovator in veterinary diagnostic technology, proudly announces the breakthrough results of their Parasight All-in-One (AIO) system for automated enumeration of helminth ova in canine and feline feces. The study, published in *Parasites & Vectors*, showcases the superior precision and sensitivity of the Parasight AIO system compared to established methods.

Key Findings:

1. Exceptional Precision and Sensitivity: The Parasight AIO system demonstrated higher precision and sensitivity in detecting helminth ova compared to the traditional mini-FLOTAC method and the commercially available Imagyst system. Notably, the Parasight AIO system was more precise at lower egg counts, which is critical for early detection and treatment of parasitic infections.

2. Significant Correlation with Mini-FLOTAC: The study revealed a strong correlation between the egg counts obtained by the Parasight AIO system and the mini-FLOTAC method, underscoring the reliability of the Parasight system in quantitative fecal egg counts (FECs).

3. Superior Performance Across Species: The Parasight AIO system counted approximately 3.5 times more ova of Ancylostoma spp. and Trichuris spp., and 4.6 times more ova of Toxocara spp. than mini-FLOTAC. When compared to Imagyst, the Parasight System counted 27.9, 17.1, and 10.2 times more of these same ova, respectively.

4. Enhanced Image Quality: Utilizing advanced image processing and deep learning algorithms, the Parasight AIO system provides high-quality images with reduced contamination from extraneous fecal material, ensuring accurate identification and enumeration of ova.

5. Innovative Methodology: The Parasight AIO system employs a unique sample preparation methodology, including the use of a proprietary egg separator tool and a fluorescently labeled chitin-binding protein, which enhances the specificity and contrast of the images.

Implications for Veterinary Practice:

The findings of this study highlight the potential of the Parasight AIO system to revolutionize veterinary parasitology by providing veterinarians with a reliable, automated, and highly precise tool for diagnosing helminth infections in pets. The enhanced performance at low egg counts is particularly significant for the early detection of infections, allowing for timely intervention and improved animal health outcomes.

About Parasight System Inc.:

Parasight System Inc. is dedicated to advancing veterinary diagnostics through innovative technologies. Our mission is to equip veterinarians with the tools they need to provide the highest standard of care for their patients. With a focus on accuracy, efficiency, and user-friendliness, Parasight System Inc. is at the forefront of veterinary diagnostic solutions.

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References:

Castle, T. G., Britton, L., Ripley, B., Ubelhor, E., & Slusarewicz, P. (2024). Evaluation of Parasight All-in-One system for the automated enumeration of helminth ova in canine and feline feces. *Parasites & Vectors*, 17:275. [DOI: 10.1186/s13071-024-06351-0](https://doi.org/10.1186/s13071-024-06351-0).

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