ZOETIS DIAGNOSTICS

# AlphaTrak®3

## Demonstrated accuracy and validity for canine, feline and equine results[1,2]

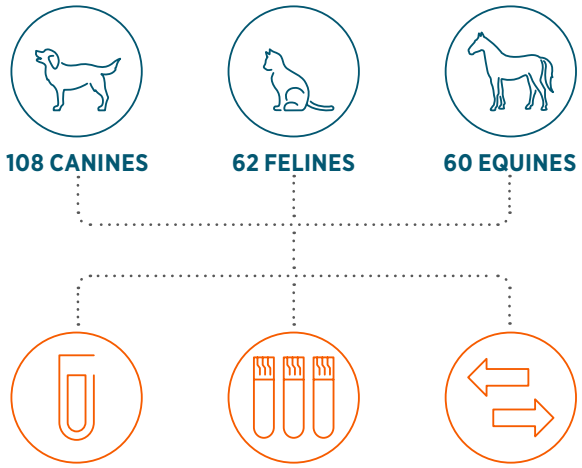
**In two prospective clinical studies,** the accuracy and clinical relevance of the AlphaTrak® 3 glucometer were assessed in comparison with the gold standard reference analyzer: Beckman Coulter® Chemistry Analyzer.


## Why use a veterinary glucometer?

The physiological differences in glucose metabolism between humans and veterinary species can lead to inconsistencies in results when using human-specific glucometers.[3]

## Study Design

**AlphaTrak 3 comparison with Beckman Coulter Reference Analyzer**




## Accuracy Criteria

Studies followed International Organization for Standardization (ISO) guidelines.

**AlphaTrak 3 meets the same high requirements for blood-glucose monitoring accuracy criteria used for human glucometers** (ISO 15197:2013).

**95%** **of all results** must fall within ±15 mg/dL (at concentrations <100 mg/dL) or ±15% (at concentrations ≥ 100 mg/dL) of reference method

**99%** **of blood glucose readings** must fall within zones A and B of the consensus error grid, which measures the clinical significance of accuracy results

## Results

**Accuracy of AlphaTrak 3 was comparable to Beckman Coulter Reference Analyzer.[1,2]**

## AlphaTrak 3 Features & Benefits

- Accurate[1,2] and reliable
- Small sample size (0.3 µl)
- Wide testing range (25–750 mg/dL)
- Validated for dogs, cats and horses
- Bluetooth® connected
- Mobile App tracks patient glucose levels and activities

LOOK DEEPER

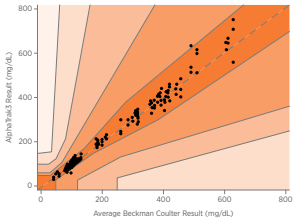
Learn more at **zoetisdiagnostics.com/point-of-care/handhelds/alphatrak**

zoetis

# AlphaTrak® 3 Clinical Relevance[1,2]

## AlphaTrak 3 demonstrated clinically accurate measurements across all ranges in the Consensus Error Grid (CEG).

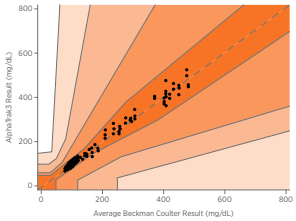
### Canine Consensus Error Grid (CEG)




**OBJECTIVE** 99%

**RESULT** 100%

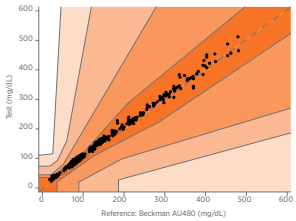
### Feline Consensus Error Grid (CEG)




**OBJECTIVE** 99%

**RESULT** 100%

### Equine Consensus Error Grid (CEG)†




**OBJECTIVE** 99%*

**RESULT** 100%

**ZONE A:** Accurate

**ZONE B:** Minor error (no clinical impact)

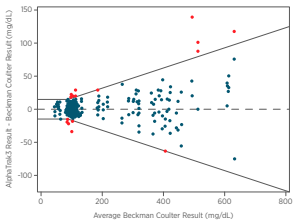
**ZONE C:** Over-correction

**ZONE D:** Failure to detect

**ZONE E:** Erroneous

## AlphaTrak 3 consistently provided accurate blood glucose readings, meeting ISO standards for clinical use.

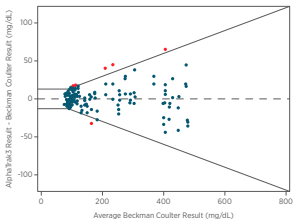
### Canine Accuracy (Bias) Plot




**OBJECTIVE** 95%†

**RESULT** 95.1%

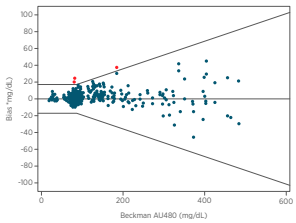
### Feline Accuracy (Bias) Plot




**OBJECTIVE** 95%†

**RESULT** 96.2%

### Equine Accuracy (Bias) Plot




**OBJECTIVE** 95%†

**RESULT** 98.9%

## Summary[1,2]

- AlphaTrak 3 demonstrated excellent performance when compared to reference results in dogs, cats and horses.
- AlphaTrak 3 met the highest human ISO accuracy criteria and study protocol criteria for dogs, cats and horses and was comparable to the Beckman Coulter analyzer.
- 95.1% of canine results, 96.2% of feline results and 98.9% of equine results fell within the ISO accuracy (bias) threshold.
- 100% of canine, feline and equine results were within zones A and B of the consensus error grid.

**Request a demo of the AlphaTrak 3 today**

* Equine samples were laboratory manipulated to replicate entire range
† Of samples within accuracy threshold

**References: 1.** Data on file. Study No. D876R-US-21-040, 2022, Zoetis Inc. **2.** Data on file. Study No. D850R-US-22-005, 2022, Zoetis Inc. **3.** Dobromylskyj MJ, Sparkes AH. Assessing portable blood glucose meters for clinical use in cats in the United Kingdom. Vet Rec. 2010 Sep 18;167(12):438-42. PMID: 20852246.

LOOK DEEPER

Learn more at **zoetisdiagnostics.com/point-of-care/handhelds/alphatrak**

zoetis