Fluispotter® is a compact, wearable, automated blood sampling system for large animals manufactured by Fluisense. It is available to the biomedical research community exclusively through BASi Research Products.

Fluispotter® is used by inserting the catheter into the jugular vein and then attaching the device with an adhesive patch on the back, covered by a jacket or bandage. This allows the animal to move freely in the pen.

Fluispotter®

ANIMAL WELFARE

- Hands-off sampling allows animals to remain calm and stress-free during collection.
- Wearable technology allows the animals to roam free in the home cage where they are most secure and comfortable.
- Improved human-animal bond and reduced fear as staff interactions can focus on positive reinforcement and bonding rather than restraint for sampling.

HUMAN BENEFITS

- Collect blood samples anytime day or night without human supervision needed, therefore eliminating the need for inconvenient shifts.
- Freedom from time-consuming and labor-intensive manual sampling, thus improving efficiency.
- Optimized physical ergonomics and reduction of injuries associated with repetitive motion and manual restraint of large animals.
- Improved human-animal bond and increased job satisfaction.

EQUIPMENT SPECIFICATIONS

- Automated extraction, collection, and storage of up to 20 dried venous blood spot samples over the course of up to 20 hours.
- Adjustable sample volume from 3 µl to 10 µl with an accuracy of ±0.5 µl.
- Samples are collected at time points predetermined by the operator ±1 min with a sampling frequency of up to 1 sample per min.
- Drops of blood are dispensed onto a strip of PerkinElmer-226 paper at a requested rate and can subsequently be analyzed in vitro one by one.
- Device weighs only 70 grams.
- Records and data logs can be qualified for GLP.