



SDM 1 photometer multispecies



Accurate, quick, and easy sperm concentration analysis

The SDM 1 is a compact **high-precision photometer** designed to determine sperm concentration in **native semen samples** of domestic animals, providing **accurate and reliable results**.

With its advanced features and robust construction, the portable SDM 1 sperm photometer is a **great investment for any veterinary practice or breeding facility**. Whether you are performing clinical tests, or working in a semen production laboratory, this device will fulfill all your needs.

Keep thorough records, track progress, and make informed decisions with the SDM 1. Its durability and cost-effectiveness make it a **vital addition to any breeding program**.

(+ Your benefits

- + No dilution of semen samples necessary
- + Calibrated for six different species, including porcine, bovine, equine, canine, caprine and ovine
- + Standardized sample volume ensures repeatable count of sperm cells in the ejaculate
- + Microcuvette is securely fixed in the correct measurement position, leading to accurate results
- + Multiple readings of each sample are automatically taken and averaged to provide precise results
- + A zero measurement is automatically performed before each analysis, minimizing the need for calibrations
- + LED light source provides stable output
- + Easy to clean and maintain: simply lift the lid of the cuvette holder and wipe clean
- + Software updates via interface
- + Flexible operation with batteries or power supply

Accuracy has been proven
in laboratory tests and
in 14 years in the field!



Photometric measurement ...

...of sperm concentration is an indirect counting method. The photometer measures the turbidity of a liquid sample and calculates the corresponding semen concentration based on a programmed species-specific curve.



See video for more
information!



Semen evaluation essentials

Sperm concentration assessment is a key point to ensure **appropriate sperm number per dose** in species subjected to artificial insemination (AI).

Some other key points for conducting semen concentration analysis are:

1. **Evaluation** of male fertility
Analyzing semen is a crucial component in andrology assessments. Sperm count, along with other parameters like sperm motility and morphology, provides insights into a donor reproductive potential.
2. **Diagnosis** of infertility
Low sperm count (oligospermia) or absence of sperm (azoospermia) can contribute to male infertility.
3. **Routine check-up** before semen preservation
4. **Examination** in case of guarantee

Overall, semen concentration analysis plays a crucial role in assessing male fertility.

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12300/0200

(🔧 Accessories

Microcuvette for SDM 1, 100/box,
disposable

12300/1111



161 *10⁶/ml

SDM1

Sperm concentration

The concentration is displayed in million (10⁶) or billion (10⁹) sperm/ml, depending on species.

To calculate TSC (total sperm count):

TSC= sperm concentration (sperm/ml) * ejaculate volume (ml)

(⚙️ Technical features

- 546 nm filter for turbidity measurement
- Net weight: 1.5 kg
- Size: approx. 25 x 13 x 5.5 cm
- Display: LED
- Power supply: 110-240 V/50-60 Hz and battery

