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EL VETERINARY TECHNICAL DEPARTMENT EXPLAINS: CALCULATION OF THE CALIBRATION STRAIGHT LINE WITH COLORIMETER

For the calculation of the straight line it is recommended to use several types of ejaculates, so that the straight line covers the entire range of possible situations. Use several boars and ejaculates of several different races. We must take into account the majority of ejaculates which are similar to those that occur most often in the center.

We advise not to touch the smooth part of the buckets and use only those that are in good condition.

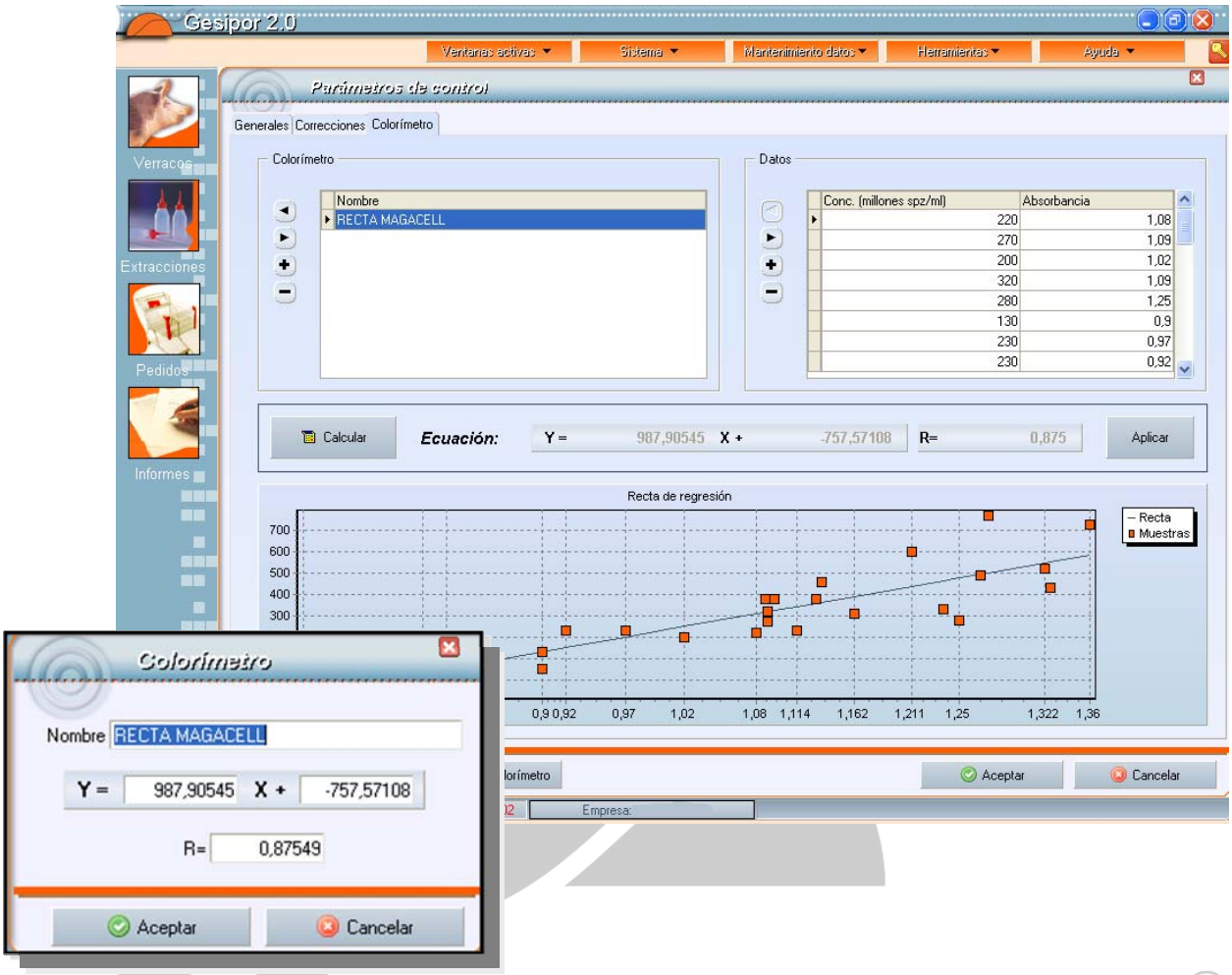
Use good quality ejaculates, sperm with good motility, they must be within an appropriate range of morphoanomalies, they should not show significant agglutination and / or contamination.

The conversion equation must be renewed at least once a year due to the variability between ejaculates, particularly between winter and summer. The straight line-equation must be reviewed every month in order to observe possible variations and large deviations.

Special attention must be paid when there is an important renewal of boars in the CIA or if any changes are made in the system of work. Check if the straight line is well suited to all races present in the center.

Counting in the Bürker chamber.

Counting in the Bürker chamber in order to establish equivalence is the most important critical point of the process. Therefore, it should be done carefully and invest the necessary time (respect the process timing).



To avoid measurement errors, always work with the same units, ie volume expressed in ml (or, which is the same, in cm^3), ejaculate concentration in 10^7 spermatozoa per ml, and the dose sperm load in billions ($3000x10^6$, $4000x10^6$, etc.).

It is important to note that it is not the same to work with ejaculates or with seminal doses, since in the latter case the appropriate adjustments should be applied in order to calculate their concentration.

Keep materials used in good condition.