



EXPERIENCE OF AIA-LSL ON NUCLEOCOUNTER SCC-100

Laboratorio Standard Latte had the opportunity of testing the new NucleoCounter SCC-100 for 18 months.

Present is our experience with the instrument and its application in a reference laboratory.

This instrument fits very well in a small routine/reference laboratory.

In fact it is very simple to use since there is only a manual step, consisting in sample dilution with the reagent C, in order to facilitate the dye process.

Even if simple, this step is the heart of the entire analysis: so it is very important that the equipment used during the dilution process is maintained in good condition, i.e. the equipment should be calibrated and validated in order to avoid any influence on repeatability of the method.

A disposable cassette is used for the analysis and by pressing a piston; the diluted sample automatically is loaded and stained, so the analyst is not exposed to dangerous staining reagents. Because of disposable cassettes, there is no carry over or need of cleaning operations.

The instruments gives the possibility of recording the images taken by the CCD camera when connected to a personal computer, even if the resolution of the images does not permit cellular morphology discrimination.

For its simple maintenance and quick start-up, it is useful especially in cases when you have a small number of samples because it does not need any warm-up, or cleaning operation before and after the analysis.

We evaluated the repeatability; reproducibility, accuracy and linearity on cow, buffalo, sheep and goat milk, and results are comparable to other routine methods.

Last but not least the instrument is calibration-free because calibration is made during production, and no further calibration is necessary.

A.I.A. Laboratorio Standard Latte
Silvia Orlandini