

Routine QC

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At the local lab:

- Prefreeze visual motility by phase contrast.
- Sperm morphology by DIC microscope.
- Spectrophotometer and Hamilton Dilutor for sperm counting.
- Post Thaw visual motility by phase contrast.
- Bacteriology surveys for environment and sperm contents, response to problem freezer bulls.
- Virology surveillance from selected semen samples for “Animal test” at the University of Wisconsin.
- Straw package integrity: Pre-run, post run O/N, Post run after 1 week storage.



At the central testing lab:

- Monthly straw samples from all labs.
- IVOS/Indent Motility (CASA with strobed uv in order to see sperm among the milk fat globules of the rich semen extender).
- Nucleocounter for sperm counting.
- Visual Motility Post thaw recheck.
- Morphology + motility rechecks on selected inventory.



At the central testing lab:

- As needed:
- Flow cytometer for advanced semen analysis. Variety of tests commercially available from supply companies. Needs to be validated for your extender however: membrane integrity, acrosome integrity, mitochondrial function.