

GENERAL ISSUES:

Biological Contamination

- a. Cross contamination between samples/animals.
- b. Faecal matter or dirt any foreign material in the sample may interfere with genotyping.

Chemical Contamination

- a. Dye/Pigment from animal markers.
- b. Insect repellent.
- c. Cleaning agents.

Improper Storage

- a. Heat exposure, including leaving samples in vehicle or in hot sun.
- b. Exposure to foreign material, such as mould.
- c. Improper frozen storage the freeze/thaw cycle of a self-defrosting unit can degrade DNA.
- d. Extended sample storage DNA degrades over time.

Insufficient sample

CONCERNS SPECIFIC TO SAMPLE TYPE:

Hair cards

- a. Too few or no follicles (less than 30) DNA only occurs in the 'root' of the hair. The actual strands do not contain DNA.
- b. Small follicles taken from young calves Hair samples should not be taken from calves younger than 6 months of age.

AllFlex TSUs (Tissue Sampling Units)

- a. No sample in TSU vial.
- b. Sample is trapped in cap/does not enter tube sample will not be preserved if it is not in the liquid.
- c. TSUs should be kept at room temperature to prevent DNA degradation.
- d. Long term storage TSUs are viable for 12 months after collection.
- e. TSU samples should **NOT** be stored in the freezer.

Semen

- a. Semen samples should be kept at room temperature or in a refrigerator.
- b. Semen straws can easily be damaged in shipping. Proper packaging is especially important an empty ball point pen tube is recommended.
- c. Empty straw Straws that have been used, or partially used, are not viable.



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