

# Next Generation<sup>®</sup> Velocity<sup>™</sup> Canine Semen Extender

## Instructions for Use

*Next Generation<sup>®</sup> Velocity<sup>™</sup>* Canine Extender contains real egg yolks, upon arrival, check to see if extender is still frozen or if in a thawing state. If extender is no longer frozen, verify that it is at least cool because of the instability of the egg yolk component that is included in the formula.

Immediately freeze the extender vials upon receipt. If at all possible, keep the extender vials in a non-defrosting freezer in order to prevent an accidental freeze-thaw of extender.

Extender should be thawed at normal room temperature prior to use.

Immediately before using extender, warm to 98.6° F in a warm water bath and let cool to room temperature. Check to be sure the temperature of the extender is the same as the temperature of the semen before adding the extender; always use a valid thermometer.

Addition of warm semen into cold extender will induce a cold shock and adding cool semen to warm extender will induce a reverse shock. Either way a 20 degree swing will negatively impact the viability of the semen. It is best to integrate the two at room temperature.

Always use disposable plastics and keep your work area clean to avoid mixing samples.

Use new vials of extender for each dog so that semen is extended into fresh extender.

## Handling Extender

Semen should be collected in fractions and the sperm-rich fraction saved into a 15 ml sterile plastic centrifuge tube as supplied in the *Next Generation<sup>®</sup>* collection kit.

**ALWAYS PREVENT WATER FROM MAKING DIRECT CONTACT WITH THE SEMEN**

For Immediate Use: After collection add sperm to the like temperature extender at a dilution ratio of 1:2. (1 part extender to 2 parts semen).

For Fresh Cooled Transport: After collection add sperm to the like temperature extender at a dilution ratio of 4:1. (4 parts extender to 1 part semen) and use the *Canine Express<sup>™</sup>*.

Carefully seal the transport tube and label accordingly, cooling at a controlled rate to 8° C is easy when using the *Canine Express<sup>™</sup>* semen transport system. Always use an overnight delivery company and make arrangements ahead of time so that you are totally prepared. Always protect semen from light, upon receipt, extended semen should be utilized and/or placed into a conventional programmable refrigeration system immediately.

A small drop of extended semen should be retained as a holding sample for the microscopic evaluation of longevity, motility and morphology; sample retention is an excellent practice. In cases where issues of semen quality may be raised, sample retention allows you to go back and reevaluate the claims of the recipient.