



LK Vet Care Pvt. Ltd.

॥ पशुसंपन्नतार्थम् तत्रोपासना ॥

Digital Frozen Semen Thawing Process





'LK Vet Care' DFSTS Kit Contains Equipment and Material





1 DFSTS Bag

1 DFSTS - It stands for Digital Frozen Semen Thawing System



1 meter Long Cable for connecting DFSTS to motorcycle battery through patch cord



1 short length cable for direct connecting to a motorcycle battery



Along with DFSTS bag

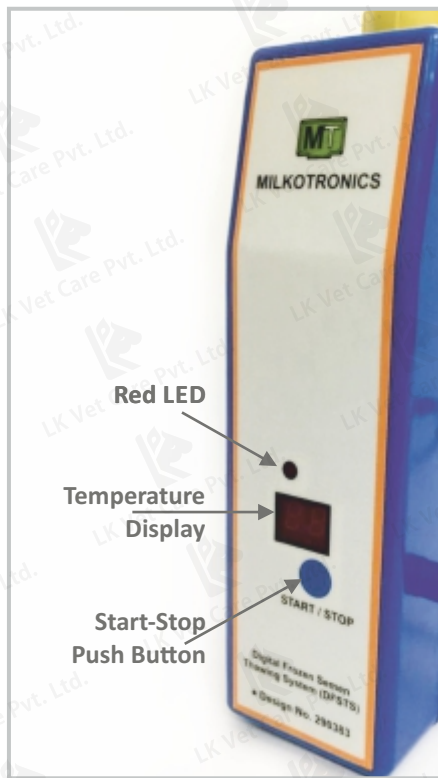
1 DFSTS Adapter (12V/ 5Amp) and Power cord (optional)



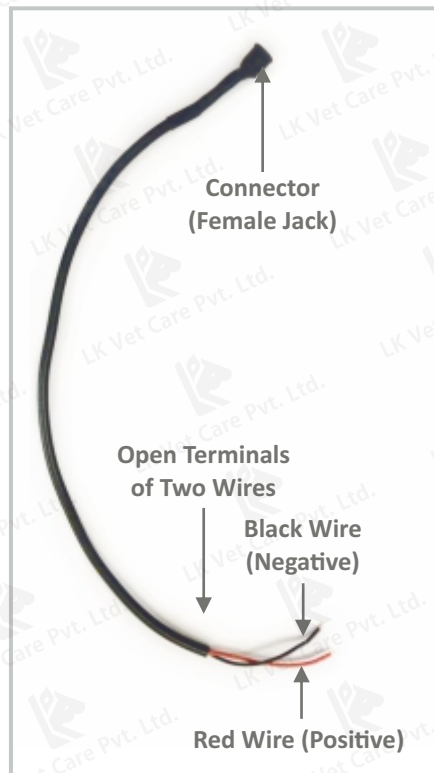
Introduction of Equipment and Materials in LK Vet Care's DFSTS kit.



DFSTS



Short Connecting Cable for a Motorcycle Battery



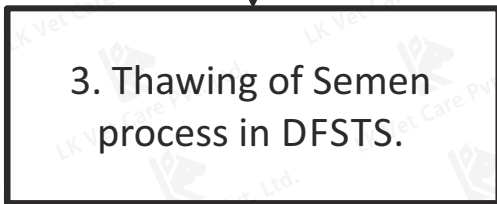
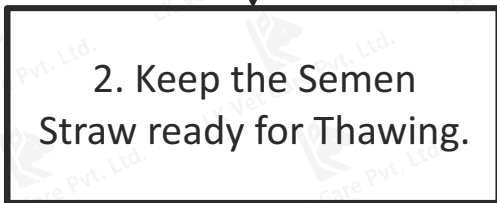
Remember: Always wear an apron, cap, hand gloves, mask, gumboots for safety and hygiene purpose during any animal examination or performing tests.





**'LK Vet Care'
Frozen Semen Kit is
Technologically and
Scientifically Sound
Thawing Process**



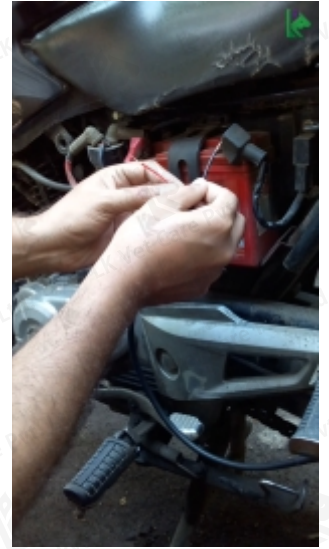


1. Keeping DFSTS ready for thawing

1.1 For connecting of DFSTS to motorcycle battery, connect the short length cable to the 1-meter-long cable.



1.2 Connect the open terminals of the two wires of the short length connecting cable to the motorcycle battery. Connect the red wire to battery's positive terminal and the black/blue wire to battery negative terminal.



1.3 Ensure that DFSTS ON-OFF switch remain OFF. Connect the other end of the 1 meter long cable to the 12V DC IN socket of the DFSTS.



1.4 Now open the cap of DFSTS and fill it with water (approx. 40 ml). Set up the cap properly.



1.5 Now place the DFSTS on a flat surface. Turn on the DFSTS via the on-off switch.



1.6 The temperature display shows the current temperature of the water inside which is the same as the surrounding temperature. Then a beep sound is played once and the red LED on the front of the DFSTS is off.



1. Keeping DFSTS ready for thawing

1.7 Press the Start/Stop Push Button for thawing. Once the beep sound is played, then the red LED glows.



1.8 The temperature display indicates rise in the water temperature. The vibrator activates at 33°C. Water inside heats to 37°C in 3-4 minutes and stays constant. At 37°C, it beeps twice. Thus, DFSTS is now ready for thawing.



2. Keeping Semen Straw Ready for Thawing.

2.1 Take out the semen straw from the LN2 container i.e. nitrogen cylinder with the help of tweezers.



2.2 Take precautions to not to come in contact with direct liquid nitrogen by hand when removing straws.



3. Thawing of Semen in DFSTS.

3.1 Open the cap of the DFSTS for thawing, insert the semen straw into the DFSTS and close the cap tightly.



3.2 Wait 15-20 seconds while the temperature display of the DFSTS shows a steady 37°C.



3. Thawing of Semen in DFSTS.

3.3 Now press the start/stop push button for a 30 second thawing cycle. Then a beep sound is played once. The red LED will turn off and the internal thawing process will begin. The vibrator will also stop.



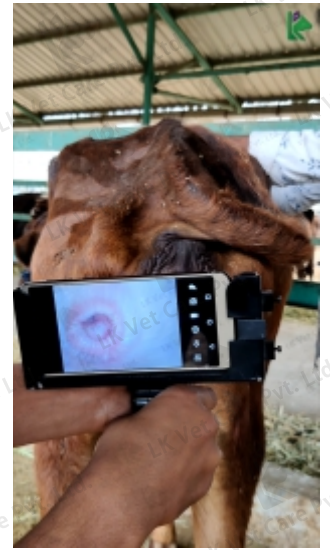
3.4 After 30 seconds the DFSTS beeps 3 times and the red LED on the front of the DFSTS turns on. Thus the thawing is known to be complete.



3.5 Now open the cap of DFSTS and take out the thawed semen straw with the help of tweezers. Thus the semen straw is ready for the next artificial insemination process.



Remember: Instead of the traditional 'per rectal' method of artificial insemination, LK Vet Care's state-of-the-art Digital Artificial Insemination Gun i.e., DAIG and related materials are available separately from **LK Vet Care Company.**



3.6 After the thawing process is complete, turn off the DFSTS unit and remove the battery connections of the DFSTS. In the end pour out the water from DFSTS.



Remember :



Always utilize filtered water for thawing. Avoid using boring, well or tap water.



Use only plain water to clean DFSTS. While cleaning, do not use any type of cleaning solution detergent or mix detergent with water.



Always use DFSTS in stand up position.



DFSTS also runs on direct mains electricity. It requires DFSTS adapter (12V - 5 Amp) and power cord.



Keep changing the water in the DFSTS after 10 consecutive thawing.



Never use DFSTS without adding water.

Thus, complete LK Vet Care engineered and scientifically sound thawing process for one frozen semen straw with all sub-processes is completed in just 5-7 minutes.





LK Vet Care's 'Digital A-I Gun'
and 'DFSTS' must be used for
a Technically and Scientifically
Correct Artificial Insemination
Procedure!

Contact



LK Vet Care Pvt. Ltd.

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Digital Frozen Semen Thawing Process

DFSTS TRAINING VIDEO LINK:

<https://youtu.be/pBdRcDZ9ZqI>

