

## GeneReleaser® Goats' Hair Protocol

This method has been successful for:

- freshly plucked hairs
  - air stored hairs
  - methylated spirits stored hairs and
  - ethanol stored hairs.
1. Under a light microscope, look for presence of hair bulb at the end of the hair shaft. Using a surgical blade cut away most of the hair shaft leaving ~ 5mm attached to the bulb. Place into the bottom of a thermal cycling tube using sterile tweezers.
  2. Use approximately 4 hairs per sample
  3. If the hairs have been stored in solvent, then wash by placing in distilled water prior to transfer into the thermal cycling tube.
  4. Resuspend the GeneReleaser® by inverting 10 - 20 times.
  5. Add 20µl of GeneReleaser® to each tube.
  6. Vortex mix ~ 30 seconds.
  7. Using a pipette tip, ensure the hairs are pushed to the bottom of the tube and are covered with the GeneReleaser®.
  8. Add mineral oil overlay.
  9. Using the standard microwave method, place in microwave for required time. Determine this by using the "microwave evaluation" enclosed
  10. Successful amplification has been achieved from samples stored at 4°C or -20°C, providing they are heated to 80°C before added to the PCR reaction mix.
  11. Using a wide-bore pipette, take 3µl from the tube containing the GeneReleaser® and the hair sample, taking care to leave the hairs behind. Add directly to the PCR reaction mix; 10µl total volume.

If you have further questions, please contact us at [support@bioventures.com](mailto:support@bioventures.com). You may also contact us via fax (1-877-286-0330) or through our toll-free phone number (1-877-852-7846).