## Muscle Biopsy Method

- FÈ Contact the laboratory and organise same day or overnight courier service prisampling. Avoid shipping over the weekend.
- GÈ For horses with exertional myopathies the semimembrains signerally chosen; for equine motor neurondisease, biopsy the sacrocaudalis dorsalis (craniolateoaltail head). For other disorders, choose the site based omdseobviouslyaffectednuscle or biopsy several regions.
- ΗÈ Sedate horseand prepare skin for sterile surgery.
- ΙÉ A Bergstrom biopsy needles suitable, but reliable (and usually better) results ar obtained witbpen biopsy.
- ÍÈ Inject subcutaneously upo 10 ml of local anaesthetic, taking to avoid direct injection into the muscle layer.
- Q-Á^[ ˈÁæl^Á, [ ːˈ\à} \*Áæ|[ } ^ÉÁ, et several sterile gauzes with chilled sterile satimeeze ÎÈ them very tightly so they remain slightly dantpnot wet, and lay them flat. If they are too wet, the sample is ruin\d\d\chi [ \A@\ac^\d\ak\] [ \E\ec^\ia|\d\a\e\\ai\c\ak\] \[ \&\^\a\d\. ia\@\d c@^Á}^¢cÁ•c^1È
- ΪÈ Make a 4cm incision the same orientations the muscle fibresin the skin and subcutaneous tissue, exposinthe underlying muscle belly. Separate with Gelp retractor.
- ÌÈ Make 2 parallel incisions (3 cm) the muscle parallel those muscle fibres, about 1cm apart.
- JÈ Then, while holding the incised muscle proximally, incise the proximal region ar carefully underminethe strip (8mm depth). Finally incise distally. The muscle v contract as it is incised.
- Carefully place the muscle sample on the damp gauze, and fold the top layer of ga over itá[¦áā-á^[ˇÁ@æç^Áæ}Áæ••ã•cæ}cÊá]æ••Ác@^á]ã^&^á[-á{[`•&|^Ác[Ác@^{Ác[Á¦^-¦ã\*^¦æc^á[¦á ]|æ&^Áã}ÁæÁ]|æ•cã&Á][cÁã}ÁæÁ&[[|Áà[¢È
- FFÈ Close dead space completely and close subcutaneous laNete: a thorough closure reduces chance of dehiscence.
- FGÈ Suture or staple skin.

F€È

FHÈ Divide muscle into 2 pieces. Pin one piece at either end onto card and place in 1 formalin in a grew top container. There should be at least 20 x volume of formalin. and placeon the inside surface f a screwtop plastic container its own)DO NOT INCLUDE THE WET GAUZE AS THIS RUINS THE SAMPLE 'R ORW XVH SLO VDPSOH

Place both container a polystyrene box containing ice packs. Take care not to pla the containers directly against the icepátks muscletself must not freeze). Instead, providesome insulation (e.gcottonwool).

- UHFRPPHQG VXEPLWWLQJ DQ ('7\$ DQG SODLQ &æ•^~`;c@^;c^•cã} \* ã•;^~`ã!^åÈÁÞ[c^Ác@æcÁc@^Á|æàÁå[^•Á}[cÁ[~~^;ÁÔSÁæ}åÁŒÙVÁc^•cã} \*È
- FΪÈ Complete a submission form with the x}identals and the tests required. Seal and post the box boourier or and deliver.
  - Results are generally available within 10 EFI working days; if test results are required urgently for clinical reasons, please contacte laboratory and we will do our best to expedite the turn around.
  - AT ANY TIME PLEASE DO NOT HESITATE TO CONTACT THE LAB FOR FURTHER ADVICE, OR FOLLOWING RECEIPT OF THE RESULT.