



Gel Test

Major/Minor XM Equine



PROCEDURE FOR CANINE MAJOR/MINOR CROSSMATCH

Material provided :

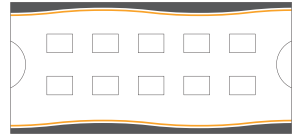
10 Gel Tests



1 buffer solution



1 box of Gel Tests



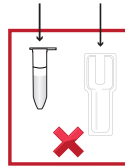
Sample material : Donor packed red blood cells (pRBCs) and Recipient plasma.
 Preferably drawn into EDTA, CPD or ACD. **Do not use Heparin.**
 For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).

Further material required : Centrifuge Hettich EBA270 ; micropipette ; test tubes ; tips.

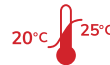
WARNING : Use only the swinging bucket centrifuge Hettich EBA270.

N°1 : Preparation of material provided before use

Gel Test = Gel tube + Gel support



DO NOT DISSOCIATE



Allow the buffer solution and Gel Test to reach room temperature before use.

N°2 : Centrifugation of the Gel Test before use

Centrifuge the Gel Test for 2 minutes at 3000 RPM with Hettich EBA270, in order to remove air bubbles or gel drops in the upper part of the Gel Test.



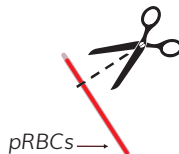
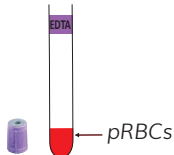
N°3 : Preparation of blood samples for MAJOR XM*

Centrifuge blood tube for 5 minutes at 3000 RPM, with Hettich EBA270. Discard the plasma to collect pRBCs.

DONOR

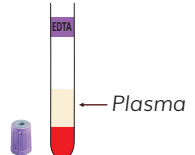
OR

Collect blood from blood bag segment.



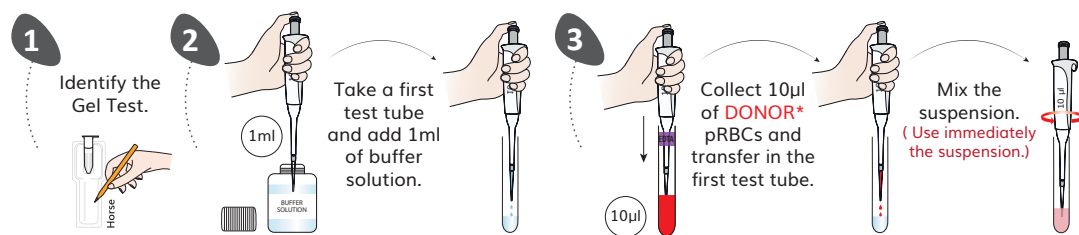
RECIPIENT

Centrifuge blood tube for 5 minutes at 3000 RPM, with Hettich EBA270, in order to collect plasma.



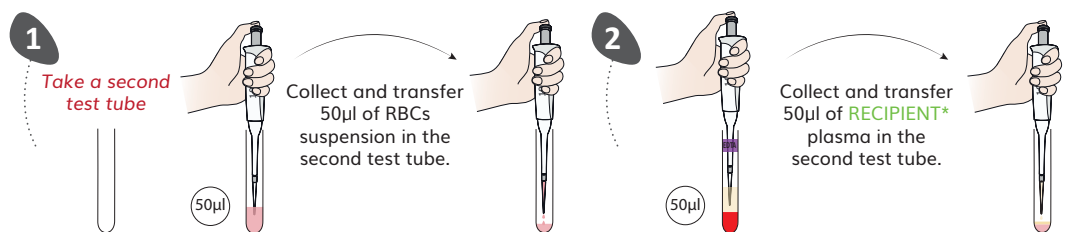
*MINOR XM : Reverse the blood samples by collecting **RECIPIENT** pRBCs and **DONOR** Plasma

N°4 : RBCs suspension preparation

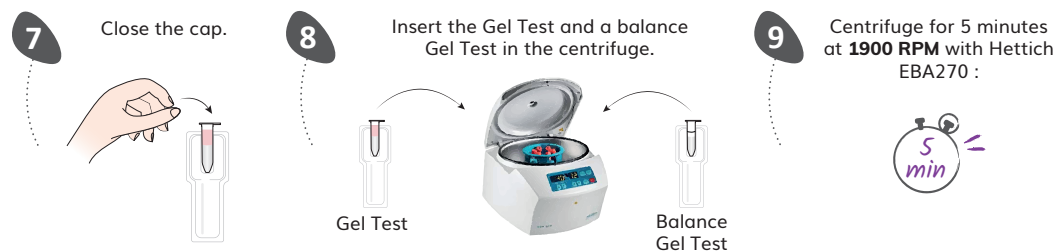
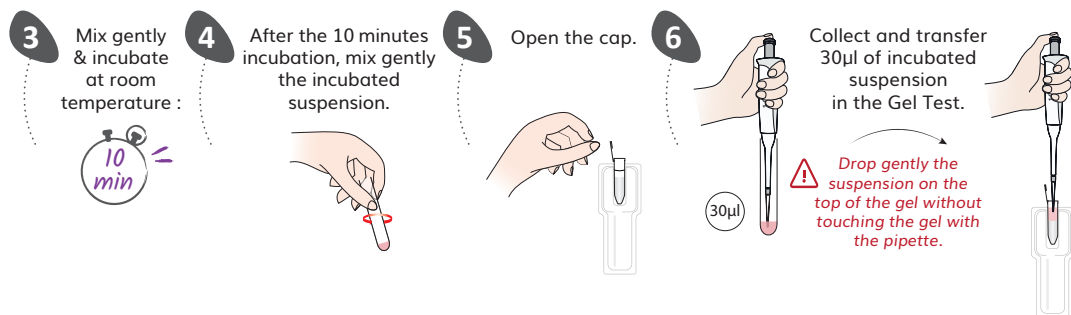


*For MINOR XM collect 10µl of **RECIPIENT** pRBCs

N°5 : Major XM Gel Test procedure

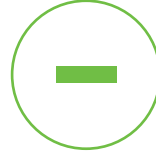


*For MINOR XM collect 50µl of **DONOR** plasma

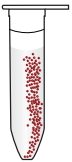


RESULT INTERPRETATION

Compatibility = SAFE TRANSFUSION 



Incompatibility = DO NOT TRANSFUSE 



Troubleshooting
Please contact the Scientific Service Laboratory
contact@alvedia.com
+33(0)478 380 239

Alvedia
Alice Veterinary Diagnostic

LIMITATIONS

- Do not use Gel Test tubes which show signs of drying.
- Gel Test tubes which show air bubbles or gel drops in the upper part of the tubes must be centrifuged before use.
- Strict adherence to the procedures and recommended equipment, especially the Hettich EBA270, is essential for a reliable and validated result.
- A non-specific centrifuge (fixed angle centrifuge) will give you false positive results.
- Debris, fibrin residues or other artefacts may cause a few unagglutinated cells to trap on top of the gel, but these tests should be interpreted as negative.
- Use of suspension solutions others than the provided one may modify the reactions.
- Too diluted or concentrated red blood cell suspensions can cause aberrant results.
- If the blood tube is hemolyzed, wash 3 times in PBS or saline buffer (NaCl 0,9%) to obtain washed pRBCs. Washing RBCs movie procedure : www.alvedia.com

VALID GEL TEST



DAMAGED GEL TESTS

Please contact us for scientific support.

