



# Gel Test

## Major/Minor XM Equine



### PROCEDURE FOR CANINE MAJOR/MINOR CROSSMATCH

Material provided :

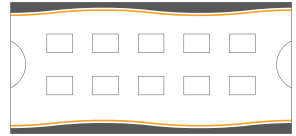
10 Gel Tests



1 buffer solution



1 box of Gel Tests



Sample material : Patient's packed red blood cells (pRBCs).

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).

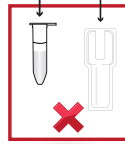
If blood sample > 3 days OR hemolyzed : wash 1 time the blood.

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



20°C → 25°C



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

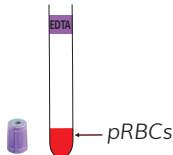
#### N°2 : Centrifugation of the Gel Test before use

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\*

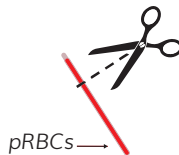
Centrifuge blood tube for 5 minutes at 3000 RPM, with Hettich EBA270. Discard the plasma to collect pRBCs.



**DONOR**

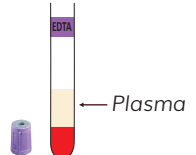
OR

Collect blood from blood bag segment.



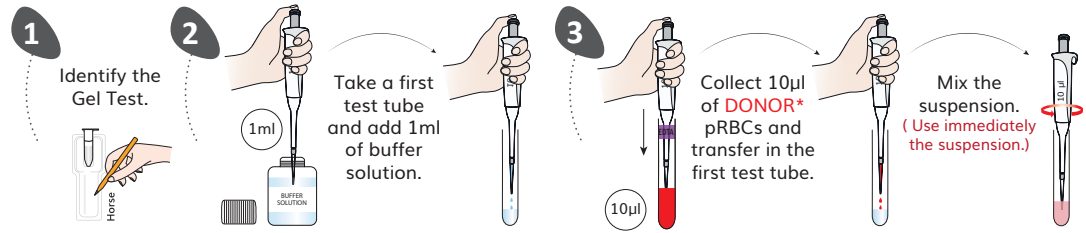
**RECIPIENT**

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



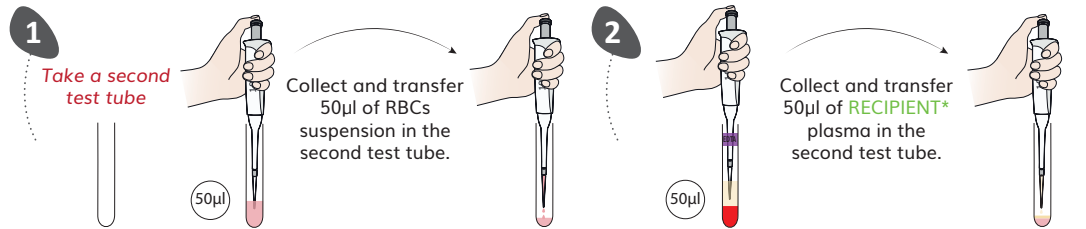
\*MINOR XM : Reverse the blood samples by collecting **RECIPIENT** pRBCs and **DONOR** Plasma

## N°4 : RBCs suspension preparation

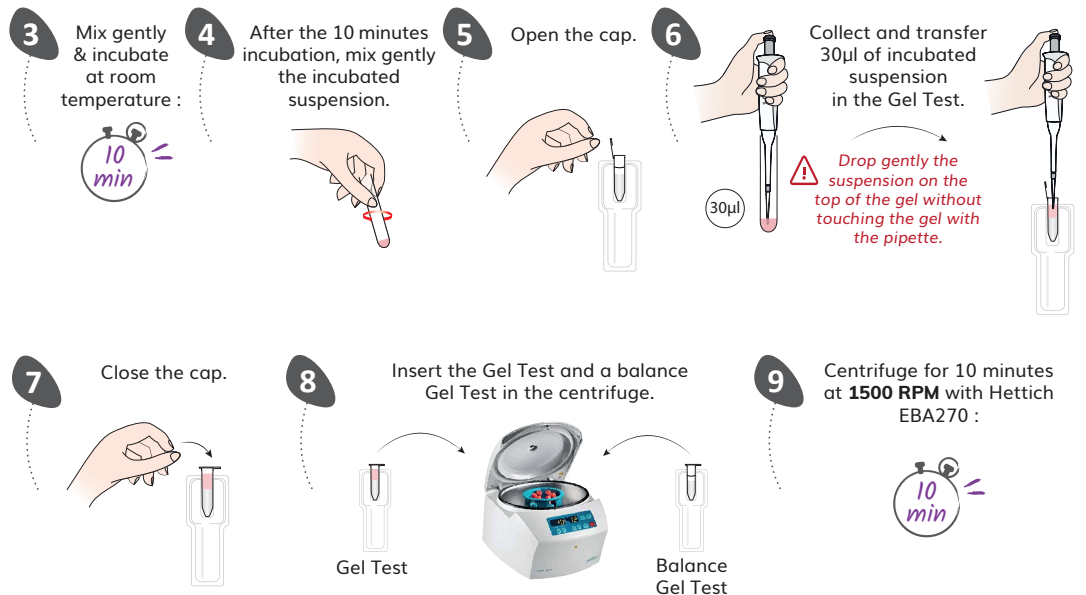


\*For MINOR XM collect 10µl of **RECIPIENT** pRBCs

## N°5 : Major XM Gel Test procedure

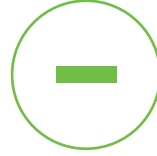


\*For MINOR XM collect 50µl of **DONOR** plasma

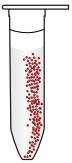


# RESULT INTERPRETATION

Compatibility = SAFE TRANSFUSION 



Incompatibility = DO NOT TRANSFUSE 



Troubleshooting  
Please contact the Scientific Service Laboratory  
contact@alvedia.com  
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**Alvedia**  
Alice Veterinary Diagnostic

Procedure Alvedia - maj 07/10/2022- Small Stories ©

# LIMITATIONS

- If the blood tube is hemolyzed OR more than 72 hours : wash 1 time in PBS or saline buffer (Nacl 0,9%) to obtain washed pRBCs.
- 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 tube 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 (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 gel, but these 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.

## VALID GEL TEST



## DAMAGED GEL TESTS

Please contact us for scientific support.

