



# Gel Test

## Major XM Equine

QR CODE : Movie Procedure

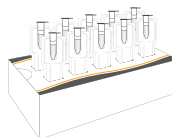


### PROCEDURE FOR EQUINE MAJOR CROSSMATCH

Material provided :

1 buffer solution

1 box of 10 XM Gel Tests



Sample material : **DONOR** blood tube or blood bag segment.

**RECIPIENT** blood tube.

Preferably drawn into EDTA, CPD or ACD. **Do not use Heparin.**

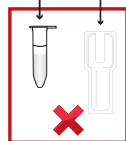
For reliable results, use of freshly collected blood is indicated ( <3 days at 2 - 8 °C).

Material required : Swinging bucket centrifuge\* ; 2 micropipettes (100-1000µl + 10-100µl) ; 2 test tubes ; tips.

**\*WARNING : Use only the swinging bucket centrifuge Hettich EBA270 or Drucker Horizon 6.**

#### 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, in order to remove air bubbles or gel drops in the upper part of the Gel Test.



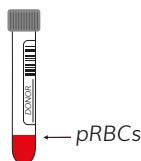
#### N°3 : Preparation of blood samples for MAJOR XM\*

**DONOR**

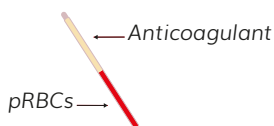
OR

**RECIPIENT**

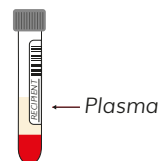
Centrifuge blood tube for 5 minutes at 3000 RPM.  
Discard the plasma to collect pRBCs.



Centrifuge blood bag segment for 5 minutes at 3000 RPM.  
Discard the anticoagulant to collect pRBCs.

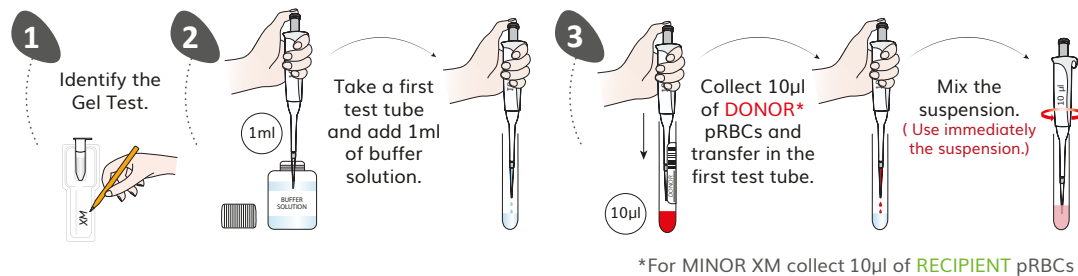


Centrifuge blood tube for 5 minutes at 3000 RPM, in order to collect plasma.

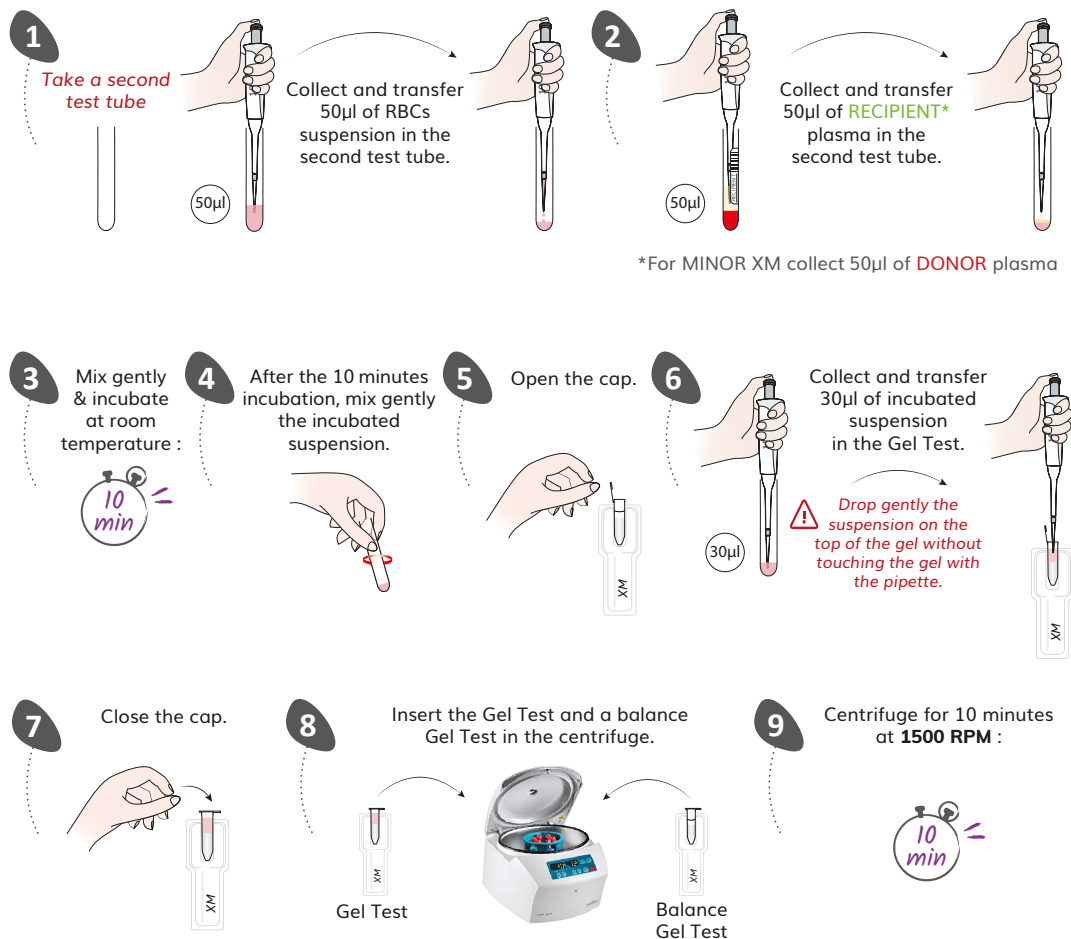


\*MINOR XM : Reverse the blood samples by collecting **RECIPIENT** pRBCs and **DONOR** Plasma

## N°4 : RBCs suspension preparation

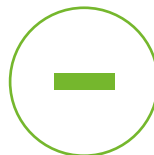


## N°5 : Major XM Gel Test procedure

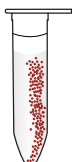
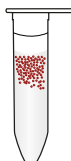


# RESULT INTERPRETATION

Compatibility = **SAFE TRANSFUSION** 



Incompatibility = **DO NOT TRANSFUSE** 



# 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 or Drucker Horizon 6, 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.

