Gel.Test
Major XM Canine

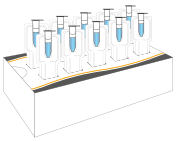
SCAN ME
- Movie procedure
- Test result
- Record result
- Troubleshooting

PROCEDURE FOR CANINE 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 : **Specific centrifuge : Hettich EBA270 or Drucker True Bond ;**
2 micropipettes *(100-1000µl + 10-100µl)* **; 20 clean test tubes (5ml).**

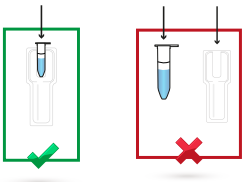
Preparation of material provided

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

XM

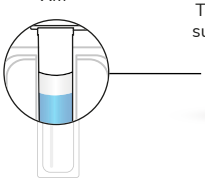
DO NOT DISSOCIATE
FOR CENTRIFUGATION

Gel Test = Gel tube + Gel support



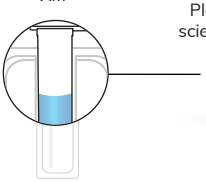
Visual checking before use

XM



Translucide supernatant

XM



Do not use if dry gel.
Please contact scientific support.

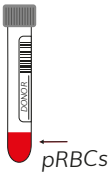
Preparation of blood samples for MAJOR XM*

DONOR BLOOD TUBE

Centrifuge blood tube :

- **with Hettich : 3 minutes at 3500 RPM**
- **with Drucker : program "Blood separation" (3200 RPM / 3min)**

Discard plasma.



pRBCs

RECIPIENT BLOOD TUBE

Centrifuge blood tube :

- **with Hettich : 3 minutes at 3500 RPM**
- **with Drucker : program "Blood separation" (3200 RPM / 3min)**

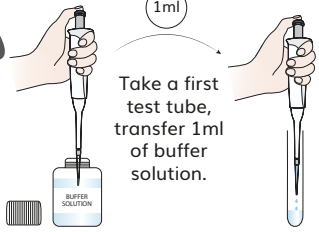
Plasma

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

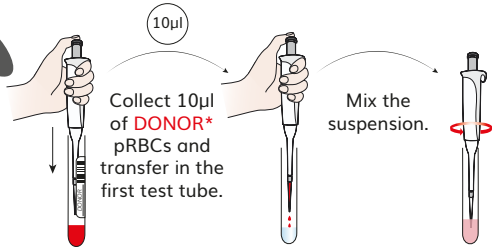
RBCs suspension preparation

1 Identify the Gel Test.

2 Take a first test tube, transfer 1ml of buffer solution.



3 Collect 10µl of DONOR* pRBCs and transfer in the first test tube. Mix the suspension.

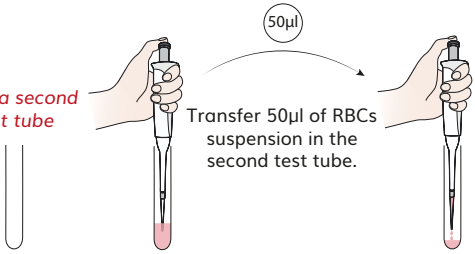


*For MINOR XM collect 10µl of RECIPIENT pRBCs

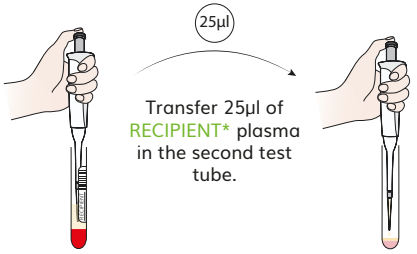
Major XM Gel Test procedure

1 *Take a second test tube*

Transfer 50µl of RBCs suspension in the second test test tube.



2 Transfer 25µl of RECIPIENT* plasma in the second test tube.

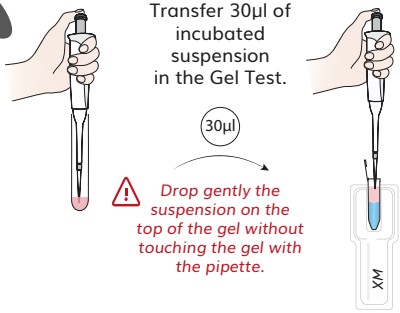


*For MINOR XM collect 25µl of DONOR plasma

3 Mix gently & incubate at room temperature :

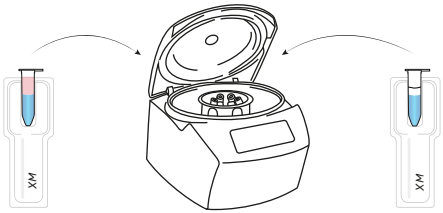
4 Mix gently the incubated suspension.

5 Transfer 30µl of incubated suspension in the Gel Test.



Drop gently the suspension on the top of the gel without touching the gel with the pipette.

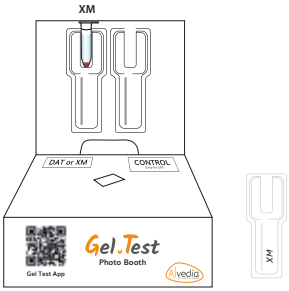
6 **Hettich** : Centrifuge Gel Tests **for 10 minutes at 1500 RPM**
Drucker : Centrifuge Gel Tests **program "Gel Test" (1500 RPM / 10min)**



Gel Test

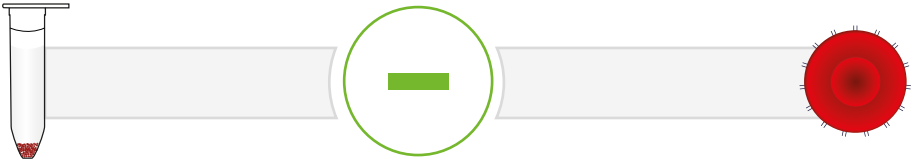
Balance Gel Test

7 Scan your test on the app using the gel test photo booth :

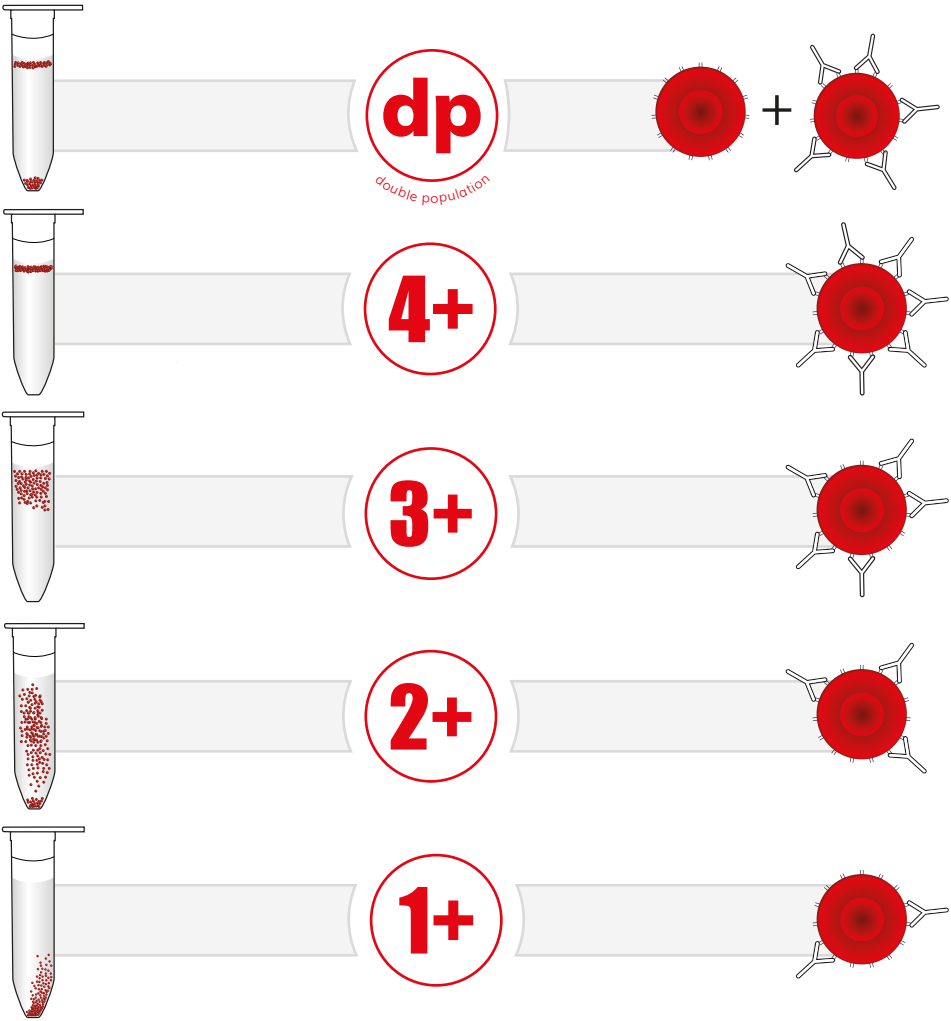


RESULT INTERPRETATION

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 and Drucker True Bond, 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 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.

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