Gel.Test
Major XM Feline

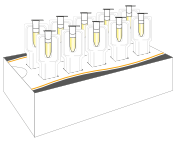
SCAN ME
- Movie procedure
- Test result
- Record result
- Troubleshooting

PROCEDURE FOR FELINE MAJOR CROSSMATCH

Material provided :

1 buffer solution

1 box of 10 XM Gel Tests



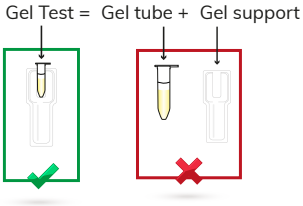
Sample material : DONOR blood tube or blood bag segment.
RECIPIENT blood tube.
Preferably drawn into EDTA, CPD or ACD. Do not use Heparin.
For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).

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

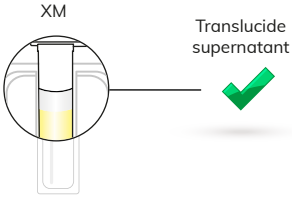
Preparation of material provided

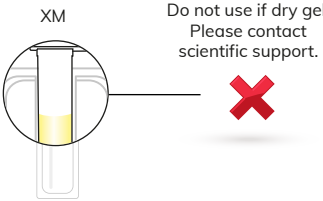
Allow the buffer solution and Gel Tests to reach **room temperature** before use.

DO NOT DISSOCIATE
FOR CENTRIFUGATION



Visual checking before use





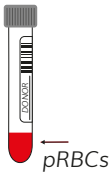
Preparation of blood samples for MAJOR XM*

DONOR BLOOD TUBE

Centrifuge blood tube :

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

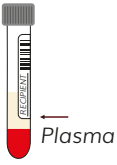
Discard plasma.



RECIPIENT BLOOD TUBE

Centrifuge blood tube :

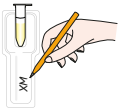
- with Hettich : 3 minutes at 3500 RPM
- with Drucker : program "Blood separation" (3200 RPM / 3min)



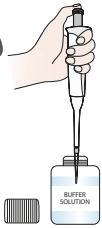
*MINOR XM : Reverse the blood samples by collecting RECIPIENT pRBCs and DONOR Plasma

RBCs suspension preparation

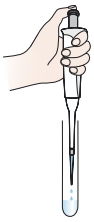
1 Identify the Gel Test.



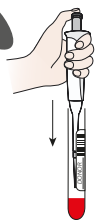
2 1ml



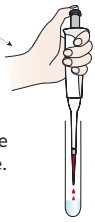
Take a first test tube, transfer 1ml of buffer solution.



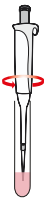
3 10µl



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



Mix the suspension.

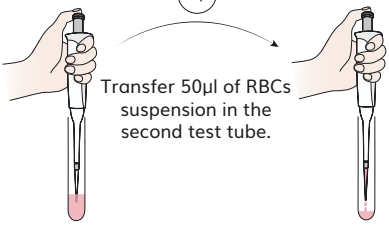


*For MINOR XM collect 10µl of RECIPIENT pRBCs

Major XM Gel Test procedure

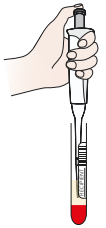
1 *Take a second test tube*

50µl

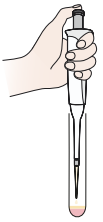


Transfer 50µl of RBCs suspension in the second test tube.

2 25µl



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

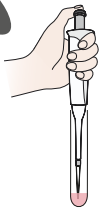


*For MINOR XM collect 25µl of DONOR plasma

3 Mix gently & incubate at room temperature :

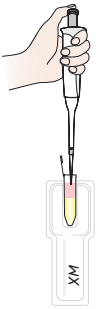
4 Mix gently the incubated suspension.

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

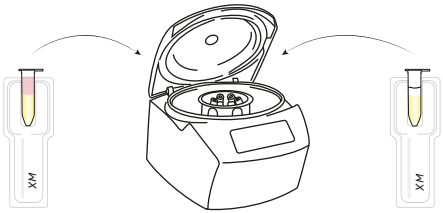


30µl

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



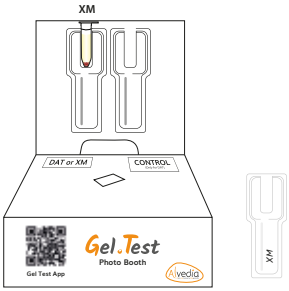
6 **Hettich** : Centrifuge Gel Tests **for 10 minutes at 1500 RPM**
Drucker : Centrifuge Gel Tests **program "Gel Test" (1500 RPM / 10min)**



Gel Test

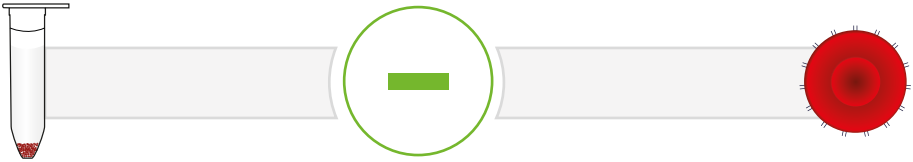
Balance Gel Test

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

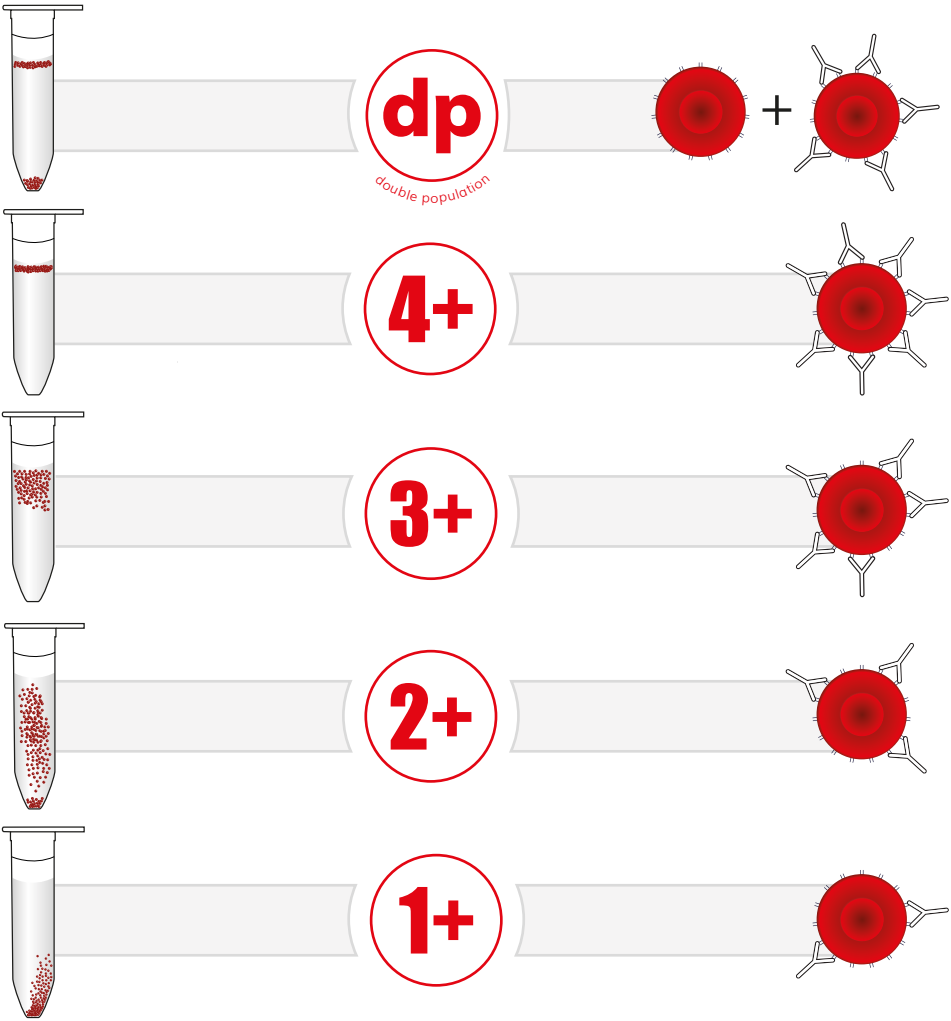


RESULT INTERPRETATION

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
Please contact the Scientific Service Laboratory
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