

GEL TEST PROCEDURE

Gel.Test XM *Equine*

PROCEDURE FOR EQUINE MAJOR CROSSMATCH



25 min



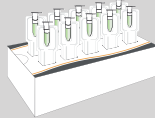
ALVEDIA
alice veterinary diagnostics

Material provided:

1 buffer solution



1 box of 10 DAT
Gel Tests



**MOVIE
PROCEDURE**

(Scan
the QR code)

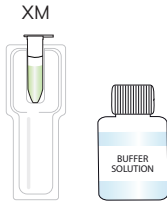
- Test result
- Record result
- Troubleshooting

SAMPLE MATERIAL: **DONOR** blood tube or blood bag segment. **RECIPIENT** blood tube.
Preferably drawn into EDTA, CPDA or ACD only. **Do not use Heparin.**
If blood bag segment > 7 days: wash 1 time the blood.

MATERIAL REQUIRED: Specific centrifuge: Hettich EBA270 or Drucker True Bond ;
2 micropipettes (100-1000µl + 10-100µl) ; 20 test tubes (min. 1.5 ml).

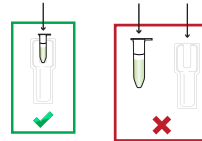
A PREPARATION OF MATERIAL PROVIDED

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

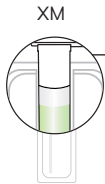


**DO NOT DISSOCIATE
FOR CENTRIFUGATION**

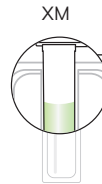
Gel Test = Gel tube + Gel support



B VISUAL CHECKING BEFORE USE



Translucent
supernatant



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



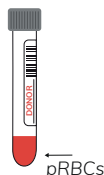
C PREPARATION OF BLOOD SAMPLE FOR DAT

DONOR BLOOD TUBE

Centrifuge blood tube:

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

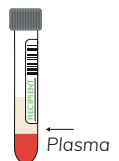
Discard plasma.



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

GEL TEST PROCEDURE

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D RBCS SUSPENSION PREPARATION

STEP 1

Identify the Gel Test.



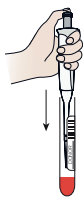
STEP 2



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



STEP 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

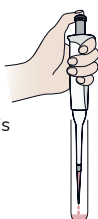
D MAJOR XM GEL TEST PROCEDURE

STEP 1

Take a second test tube



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



STEP 2



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



*For MINOR XM collect 25µl of **DONOR** plasma

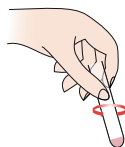
STEP 3

Mix gently & incubate at room temperature :



STEP 4

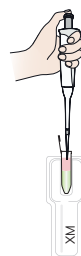
Mix gently the incubated suspension.



STEP 5



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

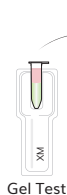


Drop gently the suspension on the top of the gel without touching the gel with the pipette.

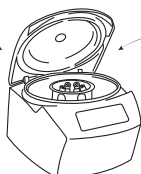
STEP 6

Hettich: Centrifuge Gel Tests for **10 minutes at 1500 RPM**

Drucker: Centrifuge Gel Tests program "Gel Test" (1500 RPM / 10min)



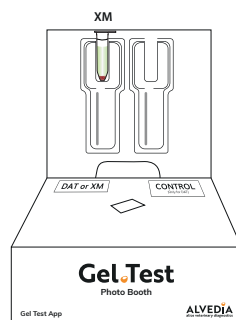
Gel Test



Balance Gel Test

STEP 7

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

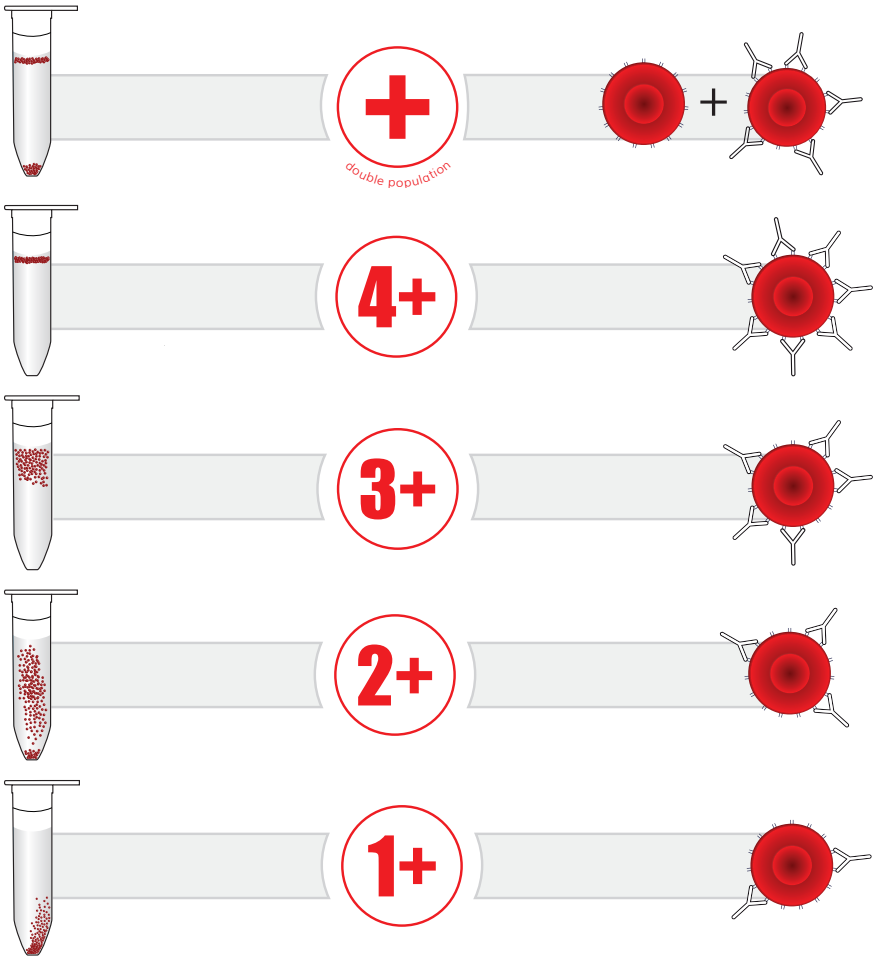


RESULT INTERPRETATION

Compatibility = SAFE TRANSFUSION



Incompatibility = DO NOT TRANSFUSE



LIMITATIONS

- Blood bag segment stored for more than 7 days: 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.