

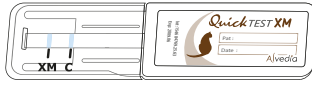


QuickTest XM

FELINE PROCEDURE FOR MAJOR CROSSMATCH*



Material provided :



1 XM Quick Test

≈ 10 µL

≈ 10 µL

2 Blood collector strips



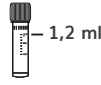
1 blue top buffer 1



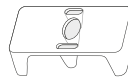
1 green top buffer 2



1 Wash Buffer



1 small tube



1 Empty well



2 pipettes (1 drop ≈ 40 µL)

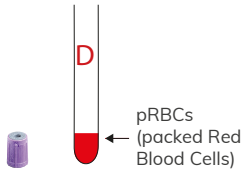
* For minor XM reverse the blood samples : Minor = Donor Plasma + Recipient RBCs and perform the same procedure

N°1 : PREPARATION OF BLOOD SAMPLES

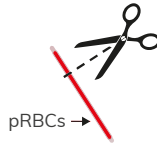
(MAJOR = Donor RBCs + Recipient plasma)

Donor

Centrifuge blood tube (5 min at 1000g).
Discard the plasma to collect pRBCs.



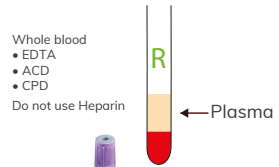
Collect blood from blood bag segment.



OR

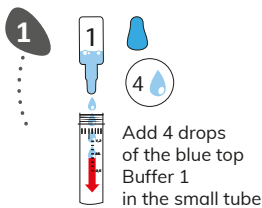
Recipient

Centrifuge blood tube (5 min at 1000g)
in order to collect plasma ⁽¹⁾ :

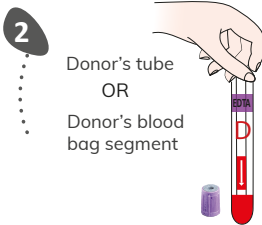


⁽¹⁾ or serum if using a dry tube

N°2 : PREPARATION OF MAJOR XM

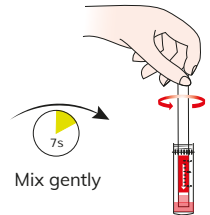


1
4
Add 4 drops of the blue top Buffer 1 in the small tube

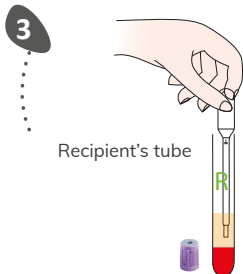


2
Donor's tube OR Donor's blood bag segment

Collect pRBCs with the blood collector strip and transfer in the small tube



Mix gently 7s

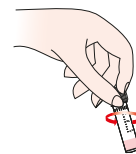


3
Recipient's tube

4
3
Plasma
With the pipette collect the plasma and transfer 3 drops in the small tube



Discard pipette



Mix gently

N°3 : INCUBATION



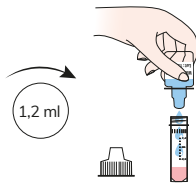
Incubate 10 minutes
at room temperature

N°4 : WASHING PROCEDURE

FIRST WASH

1

Fill the tube up to
1,2 ml of wash
buffer



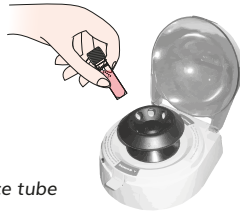
2

Mix the suspension
3 times minimum



3

Centrifuge
2
min
at 1000g



Don't forget the balance tube
(not provided)

4

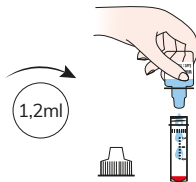
Discard the supernatant only :
the RBCs pellet must stay at the bottom



SECOND WASH

5

Fill the tube up to
1,2 ml of wash
buffer



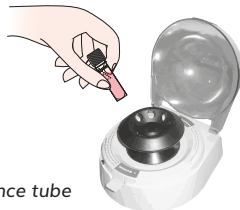
6

Resuspend completely
the pellet by mixing
the suspension
several times



7

Centrifuge
2
min
at 1000g



Don't forget the balance tube

8

Discard the supernatant only :
the RBCs pellet must stay at the bottom



THIRD WASH (PROCEDURE TO AVOID DILUTION BEFORE TESTING)

9 Fill the tube up to 1,2 ml of wash buffer

10 Resuspend completely the pellet by mixing the suspension several times

11 Centrifuge 2 min at 1000g
Don't forget the balance tube

12 Using a new pipette, discard the entire supernatant only
KEEP RBCs PELLET

B Discard the residual supernatant until reaching few RBCs

C Discard the remaining supernatant with few RBCs
Discard pipette

D Washed RBCs pellet ready for XM test procedure
TO BE USED IMMEDIATELY

N°5 : XM TEST PROCEDURE

1 Write down the patients ID

2 Add 5 drops of the green top Buffer 2 in the large tube

3 Collect the RBCs pellet with the blood collector strip
About 10 µL

4 Dip the blood collector strip in the well and mix with buffer solution

5 Insert the membrane

6 5 min
DO NOT READ RESULT AFTER 15 MIN

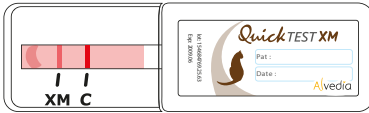
7 Read the result

QuickTest XM

Result Interpretation



INCOMPATIBLE / DO NOT TRANSFUSE



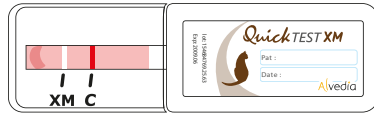
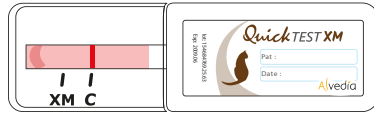
Weak line = positive result



In case of strong allo-antibodies in B cats plasma = positive result



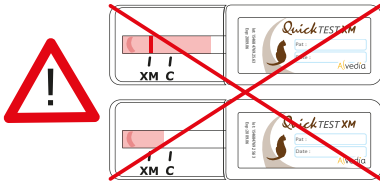
COMPATIBLE / SAFE TRANSFUSION



White line = negative result

C = Control Line / **XM** = Antiglobulin Test for detection of Feline CrossMatch

The XM test line will often be weaker than the control line.



In case of any other result, please take a picture and send us an email at : contact@alvedia.com
www.alvedia.com

SCIENTIFIC ADVISES

It is **MANDATORY** to blood type the donor and the recipient before making a Feline XM Test.
Always transfuse **COMPATIBLE** blood.

Be careful, low titer and/or low affinity alloantibodies can be eluted during washing step procedures.
This can affect the sensitivity of the XM test (e.g. low affinity/titer of anti-B in A blood group cat's plasma).

Usually, these alloantibodies cannot induce severe or mild hemolytic transfusion reaction.

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

Alvedia
Alice Veterinary Diagnostic