

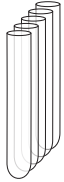


Lab.Test XM



FELINE PROCEDURE FOR MAJOR CROSSMATCH*

Material provided :



5 large tubes (5mL)



5 XM membranes



1 white top buffer 1



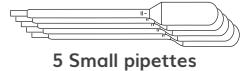
1 yellow top buffer 2



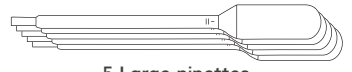
1 Wash Buffer



5 Blood collector strips



5 Small pipettes



5 Large pipettes

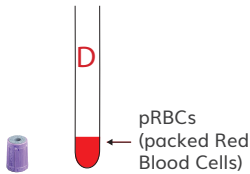
* For minor XM reverse the blood samples : Minor = Donor Plasma + Recipient RBCs and perform the same procedure

N°1 : PREPARATION OF BLOOD SAMPLES

(MAJOR = Donor RBCs + Recipient plasma)

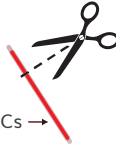
Donor

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



OR

Collect blood from blood bag segment.

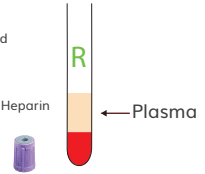


Recipient

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

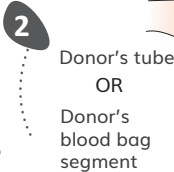
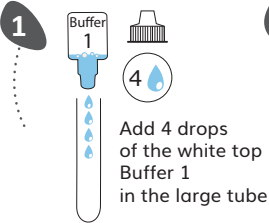
Whole blood
• EDTA
• ACD
• CPD

Do not use Heparin

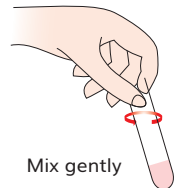
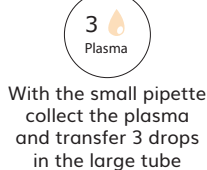
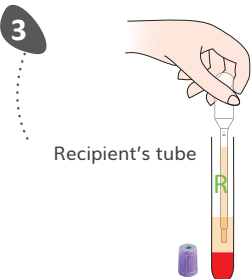
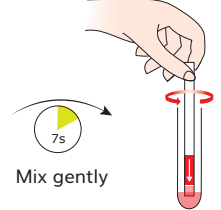


(1) or serum if using a dry tube

N°2 : PREPARATION OF MAJOR XM



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



N°3 : INCUBATION



Incubate 10 minutes
at room temperature



N°4 : WASHING PROCEDURE

FIRST WASH

1 With the large pipette fill the tube with 3 mL of wash buffer

Add
3 mL

2 Vortex the suspension

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 With the large pipette fill the tube with 3 mL of wash buffer

Add
3 mL

6 Resuspend completely
the pellet by vorticing
the suspension

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 With the large pipette fill the tube with 3 mL of wash buffer

WASH BUFFER

Add 3 mL

10 Resuspend completely the pellet by vortexing the suspension

11 Centrifuge 2 min at 1000g

Don't forget the balance tube

12 Using the same large pipette, discard the entire supernatant only

KEEP RBCs PELLET

B Discard the residual supernatant until reaching few RBCs

45°

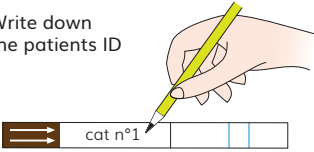
C Discard the remaining supernatant with few RBCs

Discard pipette

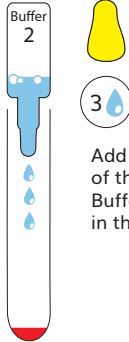
D Washed RBCs pellet ready for XM test procedure

TO BE USED IMMEDIATELY

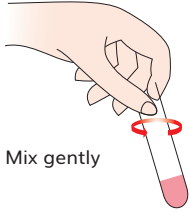
1 Write down the patients ID



2

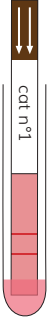


Add 3 drops of the yellow top Buffer 2 in the large tube



Mix gently

3



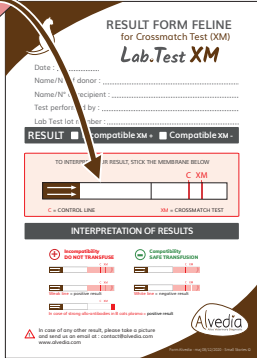
Insert the XM membrane in the large tube

4

Read the result at the end of the migration by sticking the membrane on the result form

WAIT UNTIL COMPLETE MIGRATION

5 to 10 min

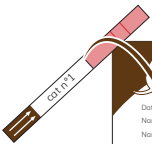


RESULT FORM FELINE for Crossmatch Test (XM)
Lab.Test XM

Date: _____
Name/N° of donor: _____
Name/N° of recipient: _____
Test performed by: _____
Lab. Test No: _____

RESULT Compatible XM Compatible XM

TO INTERPRET: IN RESULT STICK THE MEMBRANE BELOW



C = CONTROL LINE XM = CROSSMATCH TEST

INTERPRETATION OF RESULTS

	Compatibility		Incompatibility
	Compatibility		Incompatibility

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

Alvedia
Alice Veterinary Diagnostic

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

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