

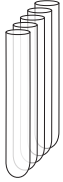


Lab.Test XM



FELINE PROCEDURE FOR MAJOR CROSSMATCH

Material provided :



5 test 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

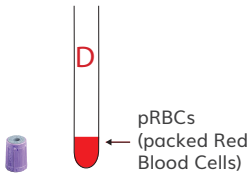
* For minor XM reverse the blood samples : Minor = Donor Plasma + Recipient RBCs and perform the same procedure

N°1 : PREPARATION OF BLOOD SAMPLES

(MAJOR = Donor RBCs + Recipient plasma)

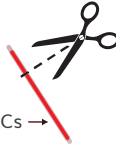
Donor

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



OR

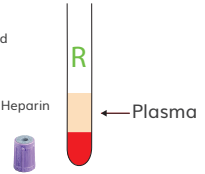
Collect blood from blood bag segment.



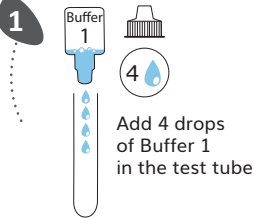
Recipient

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

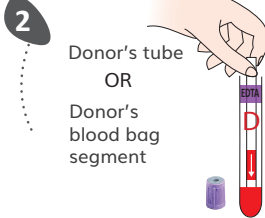
Whole blood
• EDTA
• ACD
• CPD
Do not use Heparin



N°2 : PREPARATION OF MAJOR XM

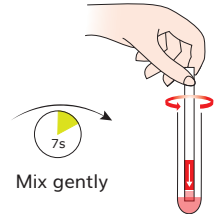


Add 4 drops of Buffer 1 in the test tube

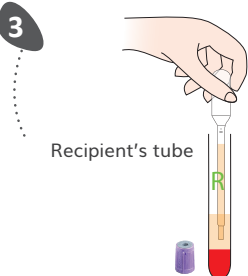


Donor's tube
OR
Donor's blood bag segment

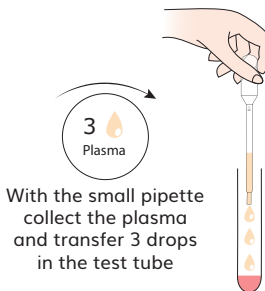
Collect pRBCs with the blood collector strip and transfer in the test tube



Mix gently



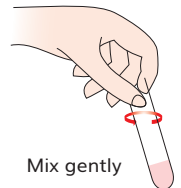
Recipient's tube



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



Discard pipette



Mix gently



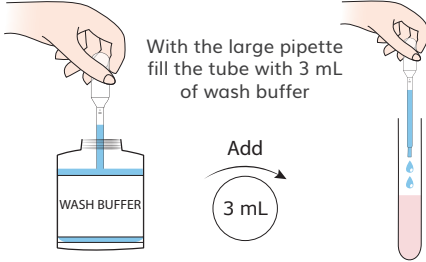
Incubate 10 minutes
at room temperature



N°4 : WASHING PROCEDURE

FIRST WASH

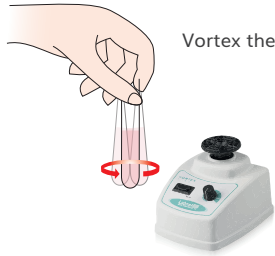
1



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



2

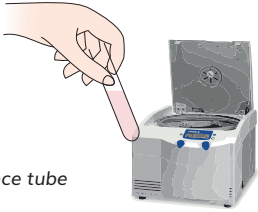


Vortex the suspension

(Keep the pipette for the entire washing procedure)

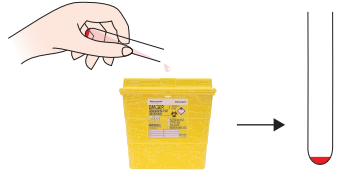
3

Centrifuge
2 min
at 1000g



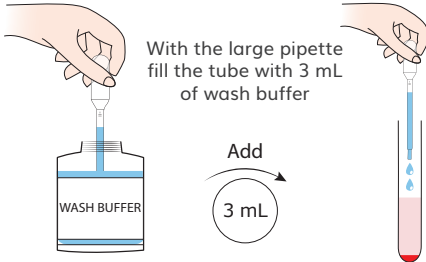
Don't forget the balance tube
(not provided)

4



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

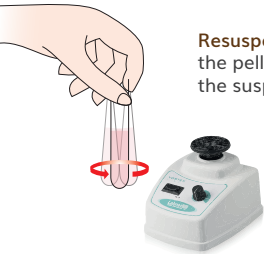
5



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



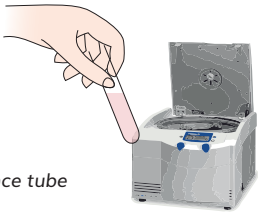
6



Resuspend completely
the pellet by vortexing
the suspension

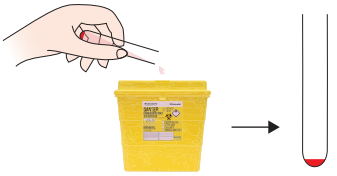
7

Centrifuge
2 min
at 1000g



Don't forget the balance tube

8

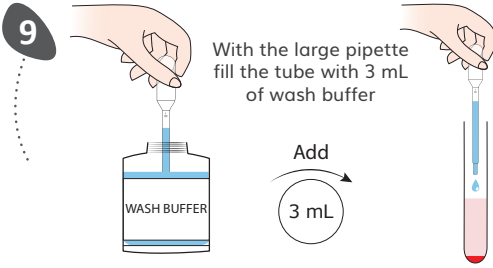


Discard the supernatant only :
the RBCs pellet must stay at the bottom

THIRD WASH (PROCEDURE TO AVOID DILUTION BEFORE TESTING)

9

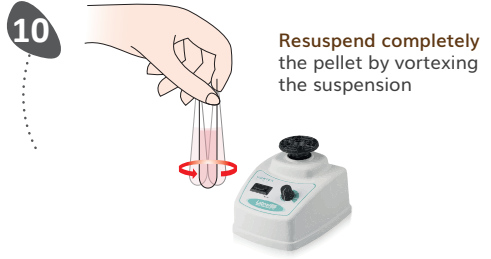
With the large pipette fill the tube with 3 mL of wash buffer



Add
3 mL

10

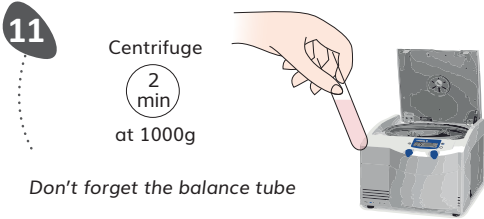
Resuspend completely the pellet by vortexing the suspension



11

Centrifuge
2 min
at 1000g

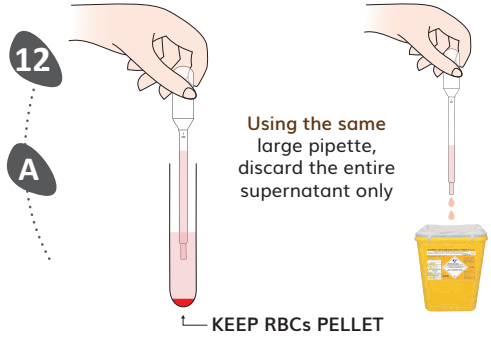
Don't forget the balance tube



12

A

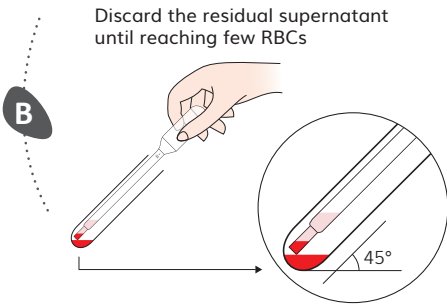
Using the same large pipette, discard the entire supernatant only



KEEP RBCs PELLET

B

Discard the residual supernatant until reaching few RBCs

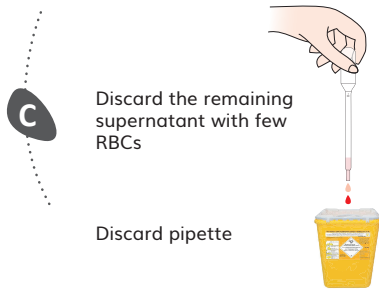


45°

C

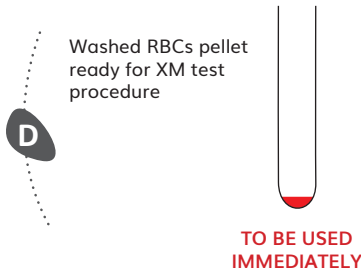
Discard the remaining supernatant with few RBCs

Discard pipette



D

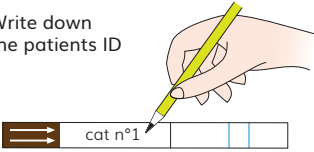
Washed RBCs pellet ready for XM test procedure



TO BE USED IMMEDIATELY

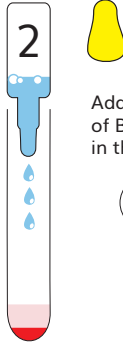
1

Write down the patients ID



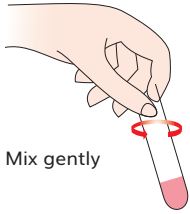
2

Add 3 drops of Buffer 2 in the test tube



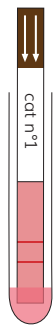
3

Mix gently



2

Insert the XM membrane in the test tube

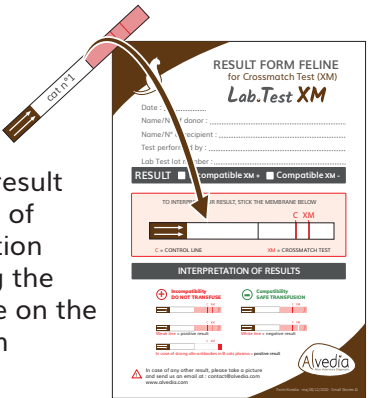


WAIT UNTIL COMPLETE MIGRATION

5 to 10 min

3

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




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

Date: _____
 Name/N° of donor: _____
 Name/N° of recipient: _____
 Test performed by: _____
 Lab. Test ID: _____

RESULT Compatible XM Compatible XM

TO INTERPRET: IN RESULT STICK THE MEMBRANE BELOW



C = CONTROL LINE XM = CROSSMATCH TEST

INTERPRETATION OF RESULTS

	Compatibility NOT TRANSFUSION		Compatibility SAFE TRANSFUSION
	Compatibility NOT TRANSFUSION		Compatibility SAFE TRANSFUSION
	Compatibility NOT TRANSFUSION		Compatibility SAFE TRANSFUSION
	Compatibility NOT TRANSFUSION		Compatibility SAFE TRANSFUSION

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