

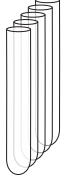


Lab.Test XM



CANINE PROCEDURE FOR MAJOR CROSSMATCH*

Material provided :



5 large tubes (5mL)



5 XM membranes



1 white top buffer 1



1 green top buffer 2



1 Wash Buffer



5 Blood collector strips



5 Small pipettes



5 Large pipettes

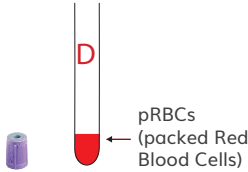
* For minor XM reverse the blood samples : Minor = Donor Plasma + Recipient RBCs and perform the same procedure

N°1 : PREPARATION OF BLOOD SAMPLES

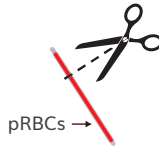
(MAJOR = Donor RBCs + Recipient plasma)

Donor

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



Collect blood from blood bag segment.



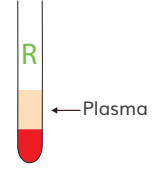
OR

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

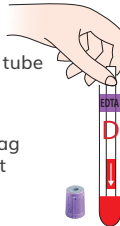
1



Add 4 drops of the white top Buffer 1 in the large tube

2

Donor's tube
OR
Donor's blood bag segment

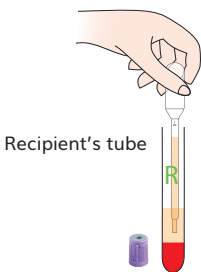


Collect pRBCs with the blood collector strip and transfer in the large tube

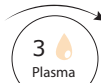


Mix gently

3



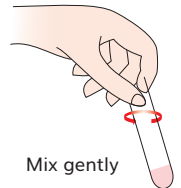
Recipient's tube



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



Discard pipette



Mix gently

N°3 : INCUBATION



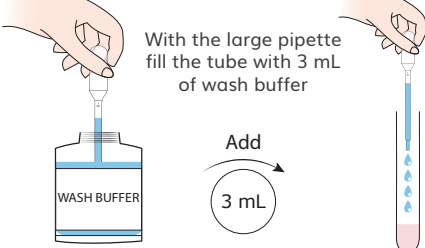
Incubate 10 minutes
at room temperature



N°4 : WASHING PROCEDURE

FIRST WASH


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



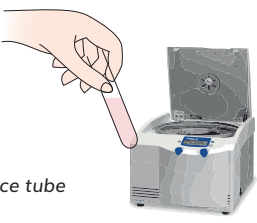
WASH BUFFER

Add
3 mL

2 Vortex the suspension

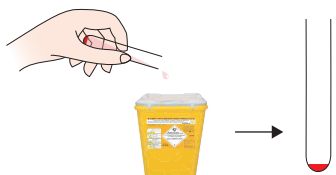


3 Centrifuge
2 min
at 1000g



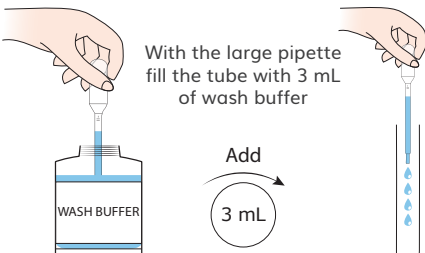
Don't forget the balance tube
(not provided)

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



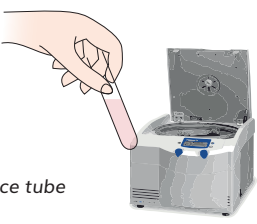
WASH BUFFER

Add
3 mL

6 Resuspend completely
the pellet by vorticing
the suspension

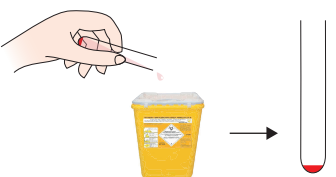


7 Centrifuge
2 min
at 1000g



Don't forget the balance tube

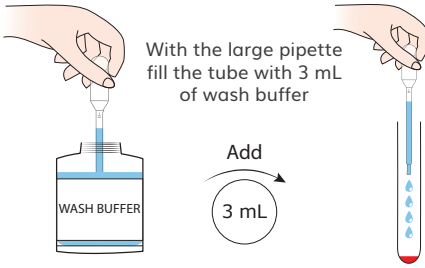
8 Discard the supernatant only :
the RBCs pellet must stay at the bottom



THIRD WASH (PROCEDURE TO AVOID DILUTION BEFORE TESTING)

9

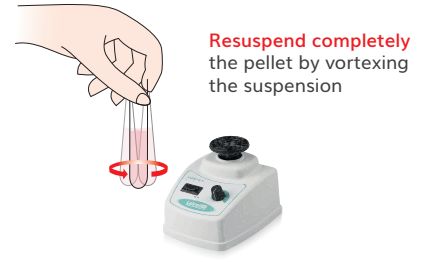
With the large pipette fill the tube with 3 mL of wash buffer



Add
3 mL

10

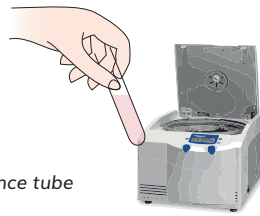
Resuspend completely the pellet by vortexing the suspension



11

Centrifuge
2 min
at 1000g

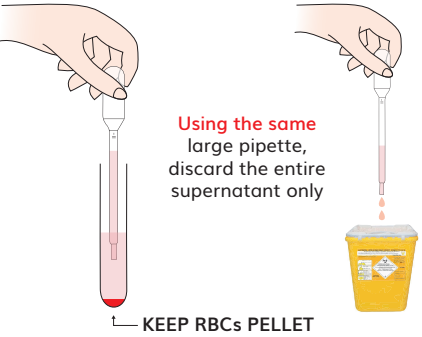
Don't forget the balance tube



12

A

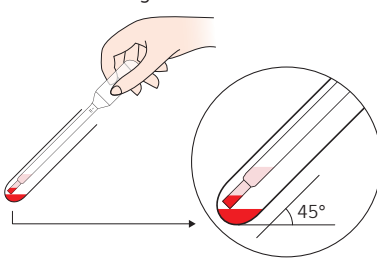
Using the same large pipette, discard the entire supernatant only



KEEP RBCs PELLET

B

Discard the residual supernatant until reaching few RBCs




45°

C


Discard the remaining supernatant with few RBCs

Discard pipette



D

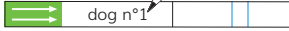
Washed RBCs pellet ready for XM test procedure



TO BE USED IMMEDIATELY

1

Write down the patients ID

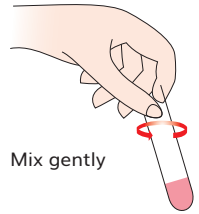


2



3

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



Mix gently

3



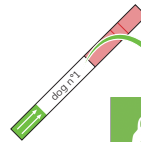
Insert the XM membrane in the large tube

WAIT UNTIL COMPLETE MIGRATION

5 to 10 min

4

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



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

Date : _____
Name/N° of doner : _____
Name/N° of recipient : _____
Test performed : _____
Lab Test lot number : _____

RESULT Incompatible XM+ Compatible XM-

TO INTERPRET YOUR RESULT, STICK THE MEMBRANE BELOW
Read immediately after testing.

C = CONTROL LINE XM = CROSSMATCH TEST

INTERPRETATION OF RESULTS

Incompatibility (DO NOT TRANSFUSE) **Compatibility** (SAFE TRANSFUSION)

Weak line = positive result

Weak line = negative result

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

Alvedia
Alice Veterinary Diagnostic

NOVEMBER 2021 - PRODUCT UPDATE

The control line and the XM line have moved down to allow a faster result (washed red blood cells are visious and could slow down the migration).

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

Alvedia
Alice Veterinary Diagnostic