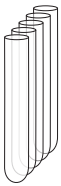
Lab.Test XM

25 min

CANINE PROCEDURE FOR MAJOR CROSSMATCH*

Material provided :



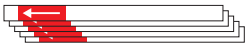
5 large tubes (5mL)

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

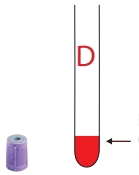
*** For minor XM reverse the blood samples : Minor = Donor Plasma + Recipient RBCs and perform the same procedure**

N°1 : PREPARATION OF BLOOD SAMPLES

(MAJOR = Donor RBCs + Recipient plasma)

Donor

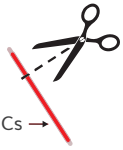
Centrifuge blood tube (5 min at 1000g). Discard the plasma to collect pRBCs.



← pRBCs (packed Red Blood Cells)

OR

Collect blood from blood bag segment.



pRBCs →

Recipient

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

Whole blood
- EDTA
- ACD
- CPD

Do not use Heparin

← Plasma

[1] or serum if using a dry tube

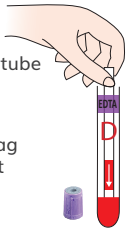
N°2 : PREPARATION OF MAJOR XM

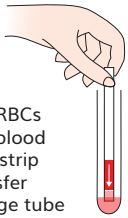
1

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

2

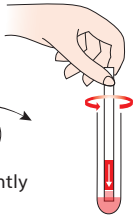
Donor's tube
OR
Donor's blood bag segment



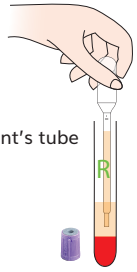


Collect pRBCs with the blood collector strip and transfer in the large tube

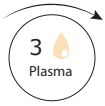
Mix gently



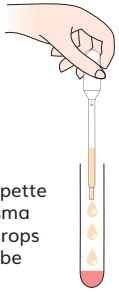
3



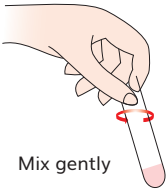
Recipient's tube



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



Discard pipette



Mix gently

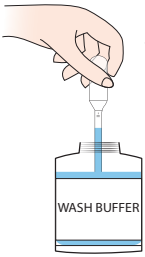
N°3 : INCUBATION

Incubate 10 minutes
at room temperature

N°4 : WASHING PROCEDURE

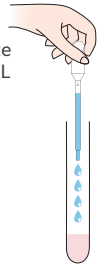
FIRST WASH

1



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

Add
3 mL



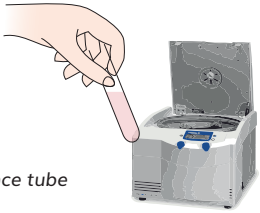
(Keep the pipette for the entire washing procedure)

2

Vortex the suspension

3

Centrifuge
2 min
at 1000g



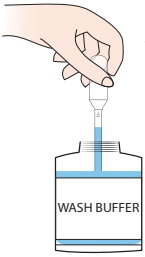
Don't forget the balance tube
(not provided)

4

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

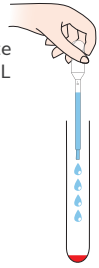
SECOND WASH

5



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

Add
3 mL

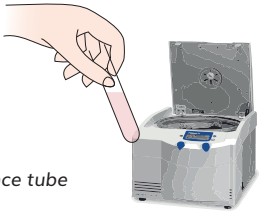


6

Resuspend completely
the pellet by vortexing
the suspension

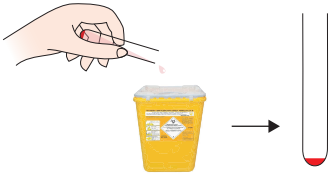
7

Centrifuge
2 min
at 1000g



Don't forget the balance tube

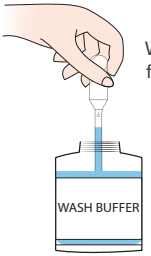
8



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

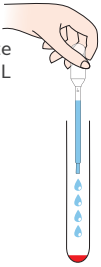
THIRD WASH (PROCEDURE TO AVOID DILUTION BEFORE TESTING)

9



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

Add 3 mL



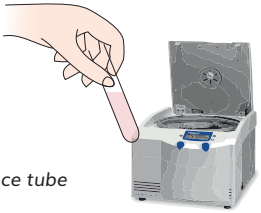
10

Resuspend completely the pellet by vortexing the suspension

11

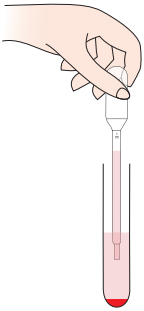
Centrifuge 2 min at 1000g

Don't forget the balance tube



12

A

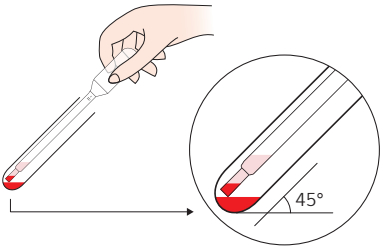


Using the same large pipette, discard the entire supernatant only

KEEP RBCs PELLET

B

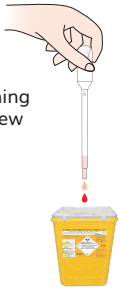
Discard the residual supernatant until reaching few RBCs



C

Discard the remaining supernatant with few RBCs

Discard pipette



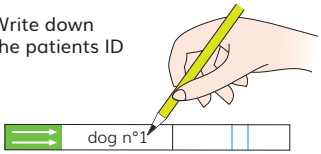
D

Washed RBCs pellet ready for XM test procedure

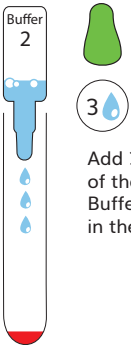
TO BE USED IMMEDIATELY

1

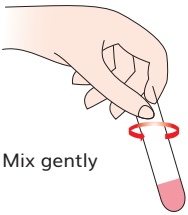
Write down
the patients ID



2

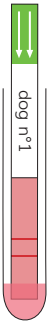


Add 3 drops
of the green top
Buffer 2
in the large tube



Mix gently

3

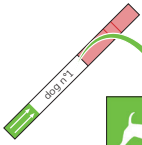


Insert the XM membrane
in the large tube

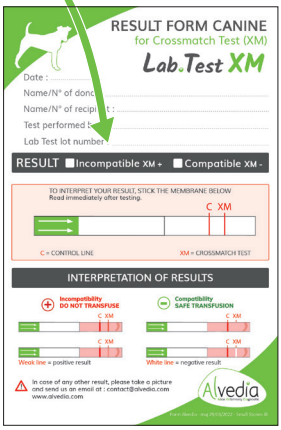
**WAIT UNTIL
COMPLETE
MIGRATION**

5 to 10
min

4



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



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